COMPUTER CHESS DIGEST ANNUAL 1983



CONTENTS

VOI 1. NO. 1	1982 All Rights Reserved
Editor	Dr. Enrique Irazoqui
Assistant To The Editor	Judd Burnham
	Eusebio Garate
	Dr. Beatriz Pastor
Contributing Editors	Dr. Danny Kopec
	Bob Sostack
Publisher	Computer Chess Digest Inc.

SUBSCRIPTION INFORMATION

Two major issues of Computer Chess Digest are published each year. In addition, constantly up-dated news, views, and product previews are published at least twice a year in the CCD Newsletter.

FULL YEAR SUBSCRIPTION

\$30.00

All inquiries concerning subscription

Computer Chess Digest Inc. 34 Copperdale Lane Huntington, N.Y. 11743

LETTERS TO THE EDITOR should be addressed to: 8 Fletcher Circle Hanover, NH 03755

Editorial2
Winter '81 and Fall '82 Tournaments : E.I
Humans and Machines, a Comparison and a Test: E.I5
Upgradabilitly: E.I21
The Mephisto Concept : T. Nitsche
The Past and Future of Microcomputer Chess: K. Spracklen
Prestige and SC9 in the 1982 U.S. Open: K. Spracklen & B. Baczynsky J. Bacqynsky32
The Updated Bratko-Kopec Test : D. Kopec, E. Irazoqui, I. Bratko45
Microcomputers and Problems : B. Sostack63
Reviews : E.I
Previews: E.I71
information should be addressed to: Comparative Chart : E.I
Games Section
- Fall '82 Tournament
- Prestige-Philidor Match
Chess Computer Mart

The Tournaments

Editorial

Independent, accurate and comprehensive information on commercially available chess computers is what this publication is all about.

How many times have you heard or read hyperbolic statements and inflated ratings about a given machine that later on failed to live up to your expectations? The answer is: too many.

Because it was to the advertiser's commercial advantage, real proof of their claims has been generally avoided.

The publication of articles intended to guide the consumer have normally failed to do so, for they didn't provide the data on which their opinions were based, even if we assume they had enough data on which to base an opinion.

The general state of affairs is best exemplified by a recent article that defined as "fish" all chess computers. Probably its author didn't realize that, by implication, he was also talking about some 90% of USCF members, weaker than today's best microcomputers. More important is what this statement reveals: a strong prejudice and lack of rational approach to these fascinating devices that just happen to be also chessplayers.

By publishing reviews, news, and comparative information about all chess computers in the market, we intend to share our findings with everyone interested in this field and also to orient the person who is trying to decide between the number of machines that today play "real chess," as opposed to clever toys, "piece-movers," that won't be even considered here.

We anticipate that this publication will carry, in forthcoming issues, a number of letters to the editor and comments from manufacturers and programmers alike that will provide us with the much-needed feed-back information to diversify and orient our content.

The machine vs. machine tournaments that include a quantity of games sufficient to ensure statistical accuracy provide conclusive proof of their relative playing strengths. There has been unsubstantiated speculation that the computers might perform differently vs. computers than vs. humans. In my opinion, the performance should be equivalent if the total number of games played per match is large enough to be statistically accurate and if the tournament includes machines of various playing styles. The validity of this approach, initially a working hypothesis, appears to be confirmed by:

- Results of the test submitted to Danny Kopec, who failed to identify humans and computers in the 10-game test, and who to a larger degree failed to specify major differences between computers and humans rated under 2000.
- 2) Ratings obtained from the machine vs. machine tournaments, which approximate USCF ratings in the case of the two microcomputers (SC9 and Prestige) that recently participated in human tournaments. The discrepancy between Elite's rating vs. machines and Elite's USCF rating can be attributed to the fact that the latter was based on games against only three human players, a condition which places the result beyond the boundaries of statistical accuracy. Under similar conditions, Sargon 2.5 deserved an Initial USCF rating of 1700 that finally dropped to 1484.

How many machines should participate in a tournament, and how many games per match should be played?

The first tournament included all of the commercially available chess microcomputers that I thought might be able to play at or above the 1600 level. The second tournament included the two highest-scoring machines from the first tournament (Elite and Sclsys Mk V), plus all new machines able to play above 1600 that arrived in time to play.

I decided to make the matches 10 games each. A lesser number seems to be statistically inaccurate, as shown by the extreme but not atypical case of the Mephisto-SC9 match, in which Mephisto won the first half 4-1 and lost the second half 0-5. In other words, a number less than 10 could give a false result. A larger number of games is theoretically desirable but probably unnecessary. In a 24-game match between Champion and Great Game Machine the partial results were 5-5,5-5, and 2-2, totaling 12-12; that is, the result in 10 games was the same as in 24. I don't mean to say that this would always happen, but it seems to indicate that 10 games per match is sufficiently accurate. In addition, to play more games per match would not have been practical given the time limitation. I would also like to point out that the relative rating differences obtained after 40 games per machine are, according to Professor Elo's research, better than 99% accurate.

Finally, the participating machines have been obtained in the most part through regular commercial conduits. In the cases where the companies have been kind enough to send me machines for testing, other machines of the same models have been obtained through a dealer in order to verify that the former are strictly production-line, commercially available models.

And here are the results of the tournaments, played with a time control of 40 moves In 2 hrs:

WINTER '81 TOURNAMENT (40/2)

Elite	Mk V	Champion	GGM(1)	Savant	Total	%
_	51/2	.7	91/2	81/2	301/2	76%
41/2	_	71/2	4	31/2	191/2	49%
3	21/2	_	5	8	181/2	46%
1/2	6	5	_	4 1/2	16	40%
1 1/2	61/2	2	51/2	_	151⁄2	39%
	- 4½ 3 ½	- 5½ 4½ - 3 2½ ½ 6	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

(1): with "Master trio", including latest updates.

FALL '82 TOURNAMENT (40/2)

	Prestige	Elite	Mephisto	S.C. 9	Conchess (1)	Mk V	Total	%
Prestige	_	51/2	7	9	21/2	81/2	321/2	74%
Elite	41/2	_	5	6	4	51/2	25	57%
Mephisto	3	5	_	4	1 1/2	91/2	23	52%
S.C. 9	1	4	6	_	3	51/2	191/2	44%
Conchess (1)	1 1/2	0	21/2	1	_	3	8 (1)	40%
Mk (V)	1 1/2	41/2	1/2	41/2	1	_	12	27%

Based on USCF ratings for Sargon 2.5, Champion, SC9, Elite, and Prestige, the ratings obtained after these two tournaments are as follows:

Prestige	1952 1875	Champion	1640	1674
Elite	1854 1801	Mk V	1635	1671
Mephisto	1811 1751	G.G.M.	1600	1653
SC9	1759 /237	Savant	1592	1651
Conchess	1722 /694			

THE FULL LISTINGS OF ALL GAMES PLAYED IN THIS TOURNAMENT APPEAR IN THE GAMES SECTION.

There are interesting comparisons between the two tournaments. In the first place, the comparative results of Elite and Scisys Mk V indicate a considerably higher average strength in the latest one. That is, in a 12-month period the chess microcomputers have been improved by some 150 points, 1750 being as common today as 1600 was a year ago.

In the second place, and as importantly, we can observe the fact that the new microcomputers are no longer the product of the "brute-force" school, in which speed is the first priority. (Elite, the brute-force champion, had dominated the first tournament.) The point is not only that the average strength of Prestige, Mephisto, SC9 and Conchess is significantly higher than that of Elite, Mark V, Champion, Great Game Machine and Savant, but they also pay much more attention to relevant positional factors, providing a more in-

teresting, more active, and, finally, more fun game.

It's interesting to observe that this more "human-like" approach to chess programming has been achieved at the expense of the sheer speed of a given program. By emphasis, using the same 6502 microprocessor running at an identical 4 MHz. clock speed, Prestige is significantly slower than Elite. It's also interesting to note that the performance of Scisvs Mx V seems to be directly proportional to the passivity of its opponent. In fact, it won only one match, defeating the most passive (and in my opinion also most boring) of the abovementioned microcomputers, while doing very poorly vs. the most active ones, Mephisto and Prestige.

Another interesting question remained to be answered. Because many chess computer owners play with their machines at a speed other than 40/2, it would seem to be important to check the

(1) Due to limitations in its opening book, Conchess played only 4 game matches.

performance at different time controls. The initial hypotheses were that the relative strengths of the computers would remain unchanged, and that the following general rule of thumb would be

confirmed: A decrease in the computing time by a factor of 4 equals a decrease in strength of 200 points. As it turned out, neither is necessarily correct.

AT 30" PER MOVE

	Elite	Champion	G.G.M.(1)	Mk V	Savant	Total	%
Elite	_	5	71/2	71/2	71/2	271/2	69%
Champion	5	_	4 1/2	61/2	7	23	57%
G.G.M.(1)	21/2	51/2	_	5	6	19	47%
Mk V	21/2	31/2	5	_	6	17	42%
Savant	21/2	3	4	4	·	131/2	34%

(1) with "Master Trio", including latest updates

AT 10" PER MOVE

	Elite	Champion	Savant	GGM(1)	Mk V	Total	%
Elite	_	81/2	. 71/2	61/2	10	321/2	81%
Champion	1 1/2		61/2	51/2	51/2	19	47%
Savant	21/2	31/2		6	6	18	45%
GGM(1)	31/2	41/2	4		51/2	171/2	44%
Mk V	0	41/2	4	41/2	_	13	32%

(1) with "Master Trio", including updates

In the case of the Mk V, it simply happens that the program has been optimised for an average of 3 min/move, with the additional handicap in playing speed chess that it will use its first 4 to 6 seconds to examine captures and checks without looking at anything else in the position. Also, at least in the case of Elite and Champion, it seems that odd plies added to the full-width search are much more significant than even plies. In the middle-game, Elite looks ahead typically 5 ply at 40/2, almost 4 ply at 30 sec/move, and 3 ply at 10 sec/move, while Champion looks ahead approximately one-half ply less at each level. This odd/even ply difference seems to be the only explanation to the fact that Elite's relative performance at 10 sec/move and at 3 min/move was much better than at 30 sec/move, while just the opposite was true for Champion.

In conclusion, it seems to me that, when choosing a chess computer, a potential buyer might want to keep in mind the performance of the various machines at his favorite time control. I am planning some tournaments with Prestige, Mephisto, SC9, Conchess, Steinitz, Savant Royale, and Philidor at various speeds. Time considerations have prevented me from doing so for the current publication.

E.I.

Humans/Machines: A Comparison and A Test

What makes a chess computer not only fun but also fascinating is its potential for artificial intelligence, the way a machine duplicates, or tries to duplicate, the human process or thinking, or, better yet, the way a computer achieves a given goal using means other than human ones. If they only could learn from experience!

It has been said, in a way with good reason, that the basic difference between humans and machines, when it comes to playing chess, is the latter's inability to formulate long-term, relevant strategies which necessarily derive from a process of analysis and abstraction that today seems to belong exclusively to human thinking. But it also happens that this specific difference is the one that separates great chess players from mediocre ones and not just from chess computers.

It has also been said that computers lack "creativity" and "imagination," terms that belong to the descriptive, sometimes poetic, language, and not to the analytical or scientifical one, tending to confuse rather than clarify the problem.

Anyway, even if convinced that there are dissimilarities between the way humans and chess computers play chess, I thought it would be interesting to try to formulate them in a specific way and to see how well an expert in chess and in the chess computer field would do in a test consisting in: 1) identifying the players of a given game as human or as computer, and 2) specifying and explaining after these games which characteristics differentiate between human chess and computer chess.

For the purpose of the test I selected 10 games, and provided the following information: 1) Some games were computer vs. computer; some were human vs. computer; none were human vs. human. 2) All the humans were officially

rated between 1720 and 1916, i.e. similar in strength to the microcomputers in the test.

Then I selected Dr. Danny Kopec because he is a strong chessplayer (2430), his Ph.D. is in artificial intelligence, and he has been involved with chess computer programming and research for over 10 years. It's difficult to imagine anyone who would be better qualified for the purposes of this experiment. I should add that Dr. Kopec was delighted to participate in a test that, using his words, "is going to be fun and very easy to solve."

And here are the games and the results of such an "easy to solve" experiment:

SYMBOLS:

!? an interesting move; ! a very good move; ? a mistake
?! a dubious move; ?? a blunder; !! an excellent move
W: White B: Black

GAME 1

Nimzo-Indian Defence (Irregular)

Guess: White: Human Black: Computer

This game is featured by irregular Opening play by both sides (4.F2F3, D7D5; 9. ...C8D7). All in all White's play is quite consistent and humanlike to the point that the finish from 20.D3G6 + is so efficient as to suggest that it might be a computer program playing. B is definitely a computer program. Development is carried out for the sake of development (9. ...C8D7?!, and then 11. ...B7B6, 12. ...E7C5) and then the great weakening of the K-side with 14. ...F7F6 was typical of computer play.

my	of the K-side	WILL 14 1	ro was typical of computer play.
	WHITE	BLACK	
1.	D2D4	G8F6	
2.	C2C4	E7E6	
3.	B1C3	F8B4	
4.	F2F3	D7D5	Preferable was 4 C7C5
5.	A2A3	B4E7 ?	This allows White an uncontested, massive center.
6.	E2E4	D5xE4	Black had to try 5B4xC3 + to prevent E2E4.
7.	F3xE4	C7C5	
8.	G1F3?!		White should play 8.D4D5 not allowing his P's to be split.
			Black should swap Q's (9D8xD4 or 9B8C6) with a
			good ending due to White's weak K-pawn.
		C5xD4	
9.	D1xD4	C8D7	
10.	F1D3	B8C6	
11.	D4F2	B7B6?!	Black should play 11F6G4! and answer 12.F2G3 with
12.	E4E5	E7C5	G4E5 since 12.F3xE5? is met by E7H4 winning the WQ.
13.	F2H4	F6G8	
14.	C1G5	F7F6?!	Black should try 14 D8B8. The text is too weakening.
15.	E5xF6!?		White could also play 15.H4H5 + E8F8 16.H1F1 with
			strong attacking chances.
		G8xF6	
16.	C3E4	C5E7	
17.	0-0	B6B5?	In a very difficult position, Black loses immediately.
			White finishes very effectively with 20.D3G6+. From
			11.D4F2 White's play was very good.
18.	E4xF6+	E7xF6	
19.		F6xG5	
	D3G6 +	H7xG6	
21.	H4xH8 +	E8E7	

22.	H8xG7+	E7D6
23.	A1D1 +	D6C7
24.	B5xC6	G5E3+
25.	G1H1	C7xC6
26.	F3E5+	Resigns

GAME 2

Sicilian Defence - Richter Rauzer Variation

Guess: White: Computer Black: Computer

White's play is computerlike due to the excess of Q-moves (13.D2H6, 15.H6H5 and the exchange sacrifice 16.H5xF7! is beyond the normal ability of a human of first category strength. Black is almost certainly a computer, as he plays without a plan. This is also revealed by Black's decision to take W's P/e6 rather than to defence his P/a6 on move 24. (Computers often consider advanced P's very valuable relative to others). The game concludes with a nice and precise mating attack.

Ciuc	ies with a mice	and precise	mating attack.
	WHITE	BLACK	
1.	E2E4	C7C5	
2.	G1F3	D7D6	
	D2D4	C5xD4	
	F3xD4	G8F6	
5.	B1C3	B8C6	
6.	C1G5	E7E6	
7.	D1D2	A7A6	
8.	0-0-0	C8D7	
	F2F4	F8E7	
	D4F3	B7B5	
	G5xF6	G7xF6	
	F4F5	D8B6	
13.	D2H6		The first twelve moves were book. No doubt 13.D2H6 is a
			new move, where 13.F1D3 or 13.G2G3 would be normal.
		0-0-0	•
14.	D1D2		An unusual continuation in an effort to allow the KB to
	0.02		develop.
		D8G8	астоюр.
45	110115	Dogo	This passe interesting problems for D 45 D7É0
15.	H6H5		This poses interesting problems for B. 15D7E8 was a
			better reply for him here.
		E7F8	
16.	H5xF7!	(Diagram)	White now gets 3 pawns for the exchange, more than
			enough, and is therefore winning.
		F8H6	
17	F5xE6	H6xD2+	
	F3xD2	D7E8	
	F7xF6	G8F8	
	F6H6	B6F2	This is a first of the book and
21.	C3D1		This is a fine way of evicting the BQ while redeploying
			the QN.
		F2F6	
22.	H6H3	F8G8	
23.	H3A3 !		Suddenly White shifts his attention to the BK. The trou-
			ble is that now White wins at least a P in any case, e.g.
			23C8B7 24.A3xD6 G8G6 25.D2 B3! and the P/e6 is
			immune.
00		F0F0	illillulle.
		F6xE6	
	A3xA6+	C8C7	
	D1C3	C6E7	
26.	A6A7+	C7D8	
27.	F1xB5		This leads to a decisive attack for White which is most
			neatly and efficiently concluded
27		E8xB5	, , , , , , , , , , , , , , , , , , , ,
	C3xB5	E6D7	
	A7B6+	D8E8	
29.	A/ B0 +	DOEO	

E8F8

30. B5xD6+

31.	H1F1+	F8G7
32.	D6E8 +	G8xE8
33.	B6F6 +	G7G8
34.	F6F7 + +	

Ruy Lopez

Guess: White: Computer Black: Computer

First impressions tell us that Black is a computer with the pointless retreat 7. ...F6G8? and then he still fails to solve his development problems with 10. ...C6A5?!. White too is a computer, for otherwise he would not he sitate to exploit his much better development with 18.A1A3? rather than 18.D2E5!. After a number of errors and vicissitudes in the endgame, Black utilizes his extra pawn plus well in the final stages of a N-ending.

yanı	e, Diack utiliz	es ilis extia	pawii pius weli ili tile ililai stages of a 14-eliullig.
1	WHITE E2E4	BLACK E7E5	
	G1F3		
		B8G6	
	F1G5	A7A6	
	B5A4	G8F6	
5.	0-0	F8E7	
6.	D2D4	E5xD4	
	E4E5 F1E1!	F6G8 ?	A poor move, where 7F6E4 or 7F6D5 are indicated. Thus B is already made to suffer for his error on the
0.			previous move. It is difficult for him to move now. 8.
			E7C5 is typically too materialistic in lieue of develop-
			ment. Probably 8F7F6 must be tried for better or for
		E7G5	worse.
0	D4 D0		
	B1D2	B7B5	This does not solve Blockle mechanic offer 44 BODE and
10.	A4B3	C6A5?!	This does not solve Black's problems after 11.B3D5 and only leads to the displacement of his N.
11.	B3D5	C8B7	
12.	D5xB7	A5xB7	
	A2A3?!		A strange move, where 13.D2E4 was indicated. Moves
			13-17 which follow are the wrong plan for both sides.
			White's QB should not be fiancettoed. D2E4 was still
			correct in the next few moves. Black must develop his
			KN.
13.		C5B6	
	B2B4	A6A5	
	C1B2	A5xB4	
	A3xB4	A8xA1	
	D1xA1	NOAM	Now it is imperative that Black develop his KN though
			White will recover the QP with advantage.
17.		D8E7?	A serious error. A human would now see 18.D2E4!
			threatening 19.E4F6 + ! or 19.E4D6 + ! with a winning at-
	(D!)		tack, which is also the case if Black plays 18 E7xB4,
	(Diagram)		i.e. 19.E4F6 + G8xF6 20.E5xF6 + E8F8 21.A1A8 + and mates.
18.	A1A3 ?		Passive. Black now manages some semblance of con-
	,		solidation in the next few moves.
		G8H6	
19.	B2xD4	B6xD4	
20.	F3xD4	C7C6	
21.	A3B3?		White should try to keep a bind on the B-squares by
			21.D2E4 and 22.F2F4.
21.		0-0	
22.	D2F1	F8A8	
23.	F1G3	E7E8	
24.	G3F5 ?		White should not trade his good N for Black's poor one
			on h6 thereby easing his game, but also missing the up-

			winning.
24.		H6xF5	willing.
	D4xF5	E8xE5!	
26.	F5E3	A8A1	Black would do better to first centralize his N with 26.
			B7D6, though after 29D8E6 which follows, Black still stands better with an extra P to boot.
27.	E1xA1	E5xA1+	Still Stands better with an extra 1 to boot.
28.	E3F1	B7D8	
	B3E3	D8E6	
	C2C3 F2F4	G8F8 E6C7 ?!	This is provocative but far from good, leading to the next
01.	1217	2007 ::	forced phase of play. Better was 31.A1B1 with centraliza-
			tion of the BQ to follow, e.g. 32.E3E5 F7F6 33.E5D6+
20	Fabe	0750	F8E8, etc.
	E3B6 B6C5 +	C7E8 F8G8	
	C5E7	A1A7 +	
35.	F1E3 ?		Why this? Simply 35.G1H1 guarantees White at least the
			win of a P with the better game due to the back rank
35.		A7A1 +	threat.
36.	G1F2 ?		Still allows Black to solve his problems when 36.E3F1
00		4440 .	would lead to recovery of the P as above.
36. 37	F2F3	A1A2 + A2E6	
	E7xE6 ?	F7xE6	Now Black has excellent winning chances in the ensuing
	00010		N-ending.
39.	G2G4 ?		Weakening the K-side P's as they are now more exposed and this ultimately leads to White's defeat.
39.		D7D5?!	Black could advance more methodically here. Better was
			39D7D6 or 39E8D6.
40.	E3C2		White has no answer to the threat of 40E8D6 followed
40.	E3C2		by 41D6E4 but to counter against Black's pawns.
40.		E8F6	
41.	C2D4	G8F7	7
	D4xC6	F6E4	
	C6D4	E4xC3	
	F3E3 H2H4	F7F6	This is well played since here on 46. E3D3
45.	112114		This is well played since here on 46. E3D3 C3A2 47.D4C6 G7G5 would win for Black.
45.		G7G6	
	E3D3	C3A2	
	D4C6 D3D2	A2C1 + C1A2	
49.		D5D4	
50.	C6xD4 ?	(Diagram)	But here some kind of real comprehension of this ending
			is lacking, for 50.C2D3 would recover White's pawn
			deficit with the better game (i.e. White has winning chances due to 1) The better K position 2) The better
			N 3) Superior pawn structure and his ability to attack
5 0		A2xB4 +	Black's weak b-pawn.
50. 51.	C2D2	B4D5	From here Black plays the remainder of the ending very
			effectively, though White should test his opponent's
E0	DAVBE	DEVE4	technique conclusively before resigning.
52. 53.	D4xB5 B5D4	D5xF4 G6G5	
00.			

coming backranker 25. ... E8xE5! when suddenly Black is

54.	H4H5	E6E5
55.	D4F5	F4xH5
56.	F5D6	H5G3
57.	D2E3	F6 E 6
58.	D6C4	H7H5
59.	G4xH5	G3xH5
60.	E3F3	H5F6
	Resigns	

FRENCH DEFENSE - Winnawer Variation

Guess: White: Computer Black: Computer

After the first ten book moves play quickly heads into uncharted waters. It is safe to conclude that both players are computers from the further inconsistent, indecisive course which play follows, (i.e. 11.D1B1, and Black's later failure to pursue the trade of Q's). Actually Black's early Q-side play is quite good and "its" subsequent errors on the K-side from a decisive position, can only be termed as tragic.

2. 3. 4. 5. 6. 7. 8. 9.	WHITE E2E4 D2D4 B1C3 E4E5 A2A3 B2xC3 A3A4 G1F3 C1D2 F1E2 D1B1	BLACK E7E6 D7D5 F8B4 C7C5 B4xC3 + G8E7 E8G6 D8A5 C8D7 C5C4 E7C8	Black's b-pawn is immune while he prepares to win White's isolatd a-pawn.
12.	0-0	C8B6	Willie's Isolatu a-pawii.
	B1B5	A7A6	
	B5C5	B6A4	White her simply look time between many 44 and 45
15.	C5A3		White has simply lost time between moves 11 and 15 with his Q sortie.
15.		B7G5	With the Quarter
16.	A3D6	A5B6	
	F3G5	A8D8	
	E2H5	G7G6	
	H5G4	A6A5	
	F1B1	B6A6	
21.	B1E1	A4B6	After Black's sound play to this point, he should focus on trading Q's, or at least ousting the WQ with D7C8. The text move is O.K. but of course involves more risk.
	D2F4	A5A4	
	A1B1	A4A3	
	B1A1	A3A2	
25.	G4E2	H7H6	The following unnecessary advances of Black's h-pawn between moves 25 and 30 ultimately lead to his undoing, though in the interum he is actually winning for many moves.
26.	G5F3	A6A5	
27.		H6H5	
	F4G5	D8A8	
	G5D2	H5H4	
	D6G7	H4H3	
	E2F1	H3xG2	
	F1xG2 F3G5	A8A6 0-0	
	C7D6	F8A8	
54.	0700	1 0/10	

35.	G1H1	A5A4?!	Why not 35A5A3 and trade Q's once and for all? Or later 37A8A7 achieving this?			
36.	D1C1	A4A3	ator or			
37.	D6C7	A3B2				
	C7D6	B5B4				
39. 40.	C3xB4 D6E7	C6D4 D7E8	DI 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
40.	DOE	DIE6	Black's inability to force victory between moves 32 and 55 despite his complete vanquish of White's center and Q-side is terribly painful to observe, until he finally succumbs.			
41.	B4B5	A6A4				
42.	G5E4	D5xE4				
43.	G2xE4	B6D5				
	E7G5	C4C3				
45.	D2 E 3	D4E2				
		E6xD5				
	C1D1	B2C2				
	F2F3 G5G2	C2B2				
		C3C2 E8xB5				
	E5E6	D5D4				
52.	E6xF7 +	G8xF1				
	E3H6	A4A3				
	F3F4	D4D3				
	G2D5 +	F7E7				
56.	H6G5 +	E7F8				
	D5D6 +	F8F7				
	D6E7 +	F7G8				
	E7E6 +	G8H7				
60.	G5F6		Black should give up his Q here 60B2xF6, which is			
00			still winning; instead:			
60.	E6E7 +	B2B3				
61. 62.	F6G7 +	H7H6 H6H7				
	G7B2 +	B3F7				
64.	E7H4 +	H7G8				
65.	H4H8 + +	117 00				
			GAME 5			
		Sic	cilian Defense - Four Knights			

Guess: White: Computer Black: Computer

Both sides are computers in this game, though from the Opening and early mid-game play you probably wouldn't think so. White gets the early initiative, but Black defends properly while making progress on the Q-side. The game is exemplary of the deep tactical motifs which may be employed by computer programs.

			project by compator programo.
	WHITE	BLACK	
1.	E2E4	C7C5	
2.	G1F3	E 7E6	
3.	D2D4	C5xD4	
4.	F3xD4	G8F6	
5.	B1C3	B8C6	
	D4xC6	B7xC6	
7.	F1D3 ?		Normal here is 7.E4E5 F6D5 8.C3E4 F7F5 etc. The text allows Black to gain equality by 7D7D5.
7.		F8D6 ?!	
8.	0-0	0-0	
9.	C1E3		A good solid developing move.
		A8B8	
10.	C3A4!		Better than 10.F2F4 E6E5 etc. which is unclear.
10.		D8C7	

11. F2F4 12. E4E5	D6E7 F6D5	
13. E3D2	F7F5	This is well played. Black needs to counter against White's central control.
14. E5xF6 15. C2C3	E7xF6	More to the point is 15.C2C4 e.g. F6D4 + 16.G1H1 D5E3 17.D2xE3 D4xE3 18.D3xH7 + etc.
15 16. D1G4 17. D3C2	H7H6 C7A5 C8A6	This Q-side counterplay is correctly motivated.
18. F1D1 19. G4G6	A5C7	It would be advisable for White to interject 19.G1H1 here or hereabouts to enable A4C5 without having to worry about the pin.
19 20. G6H7 + 21. C2G6	F8F7 G8F8 A6B5	(Diagram)
22. A4C5	B5E2	Actually a very fine exchange sacrifice: menacing are B8xB2, E2xD1 as well as C7B6.
23. G6xF7 24. D1E1 25. H7C2	F8xF7 E2G4 C7B6	And now G4F5 is also threatened.
26. B2B4	D7D6	Now Black gains vital material with a positional plus supplement it.
27. A2A4 28. B4B5 29. G1H1 30. A4xB5	D6xC5 C5C4 + C6xB5 B8B7	
31. C2B2		White's game is now very bad and it is just a matter of time before "it" must succumb.
31 32. A1A4	G4F5 F5D3	
33. B2A1	B6F2	From here on Black's technique, though not by any means flawless, is quite adequate, White never being given a real chance.
34. A4A2 35. E1G1	F6H4 B7xB5	-
36. F4F5 37. A2xA7 +	F2xF5 F7F6 ?!	In light of Black's next move, an inexplicable "computer move".
38. A1A3 39. G1A1	F6G6 B5B3	move .
40. A3C1	H4F6	
41. A7A3 42. A3xB3	D3E4 C4xB3	
43. H1G1 44. D2xC3	D5xC3 F5C5 +	
45. G1H1	F6xC3	
46. A1B1 47. C1D1	C5B4 B3B2	
48. D1G4 +	G6H7	
49. G4D1 50. D1F1	B4A3 E6E5	
51. B1D1	A3A2	
52. H2H3 53. H1H2	C3D4 D4E3	
54. D1E1 55. E1xB1	B2B1 A2xB1	
56. F1xB1	E4xB1	

Nimzo-Indian Defence - Saemisch Variation

Guess: White: Computer Black: Computer

Both players are computers, Black especially for the reason that he develops without purpose (10. ...D8E8, 11. ...E8E7). White's opening play is reasonable up to 12.C1D2. Then Black finally sets upon a logical plan with 17. ...C7C5, but developments are slow. Through the middlegame exchanges which follow he wins two pieces for a rook. The endgame technique of both sides proves lacking.

dga	me technique	of both side	s proves lacking.
	WHITE	BLACK	
1.	D2D4	G8F6	
2.	C2C4	E7E6	
3.	B1C3	F8B4	
4.	A2A3	B4xC3 +	
5.	B2xC3	0-0	
6.	F2F3	D7D5	
	E2E3	B8C6	
	C4xD5	E6xD5	
	F1D3	C8D7	
10.	G1E2	D8E8	A better, more "normal" move isF8E8. The text doesn
44	0.0	E0E7 01	not leave the KR any options.
11.	0-0 C1D2 ?!	E8E7 ?!	Black immediately wastes a tempo for no reason.
12.	CIDZ ?!		White also develops without purpose. More consistent
12.		A8B8	here is 12.D1C2 to play E3E4.
	E2F4	F8E8	
	D1B3 ?	I OEO	Very short-sighted. Still F1E1, D1C2 and E3E4 is the
14.		C6A5	indicated plan.
15.	B3A2	E7D6	A human would play 15C7C5 here with action on the
			c-file.
16.	F1B1	B8C8	-
17.	B1B2	C7C5	
18.	C3C4!		A good move, opening up the game and leading to ex-
			changes freeing White's game a bit.
18.		D5xC4	
	D3xC4	A5xC4	
20.	A2xC4	B7B6!	Now the game has stabilized a bit with Black clearly
04	D4::05	00.05	better.
	D4xC5 C4D4	C8xC5 D6C6	Disab sestions to also send to decisit. White
22.	C4D4	DOCO	Black continues to play soundly and logically. White should now try 23.E3E4, instead he loses two pieces
			for a rook.
23	F4D3	C5C4	ioi a rook.
	D3E5	C4xD4	
	E5xC6	D4xD2	
26.	B2xD2	D7xC6	Black now has two pieces for a rook, though it's not by
			any means easy to win. He must first improve his pieces
			and then advance the Q-side pawns. The next 10 moves
			are logical for both sides.
27.	A1C1	C6B5	
28.	E3E4	A7A6	
	C1C7	G8F8	
	C7B7	E8E6	
	D2D8 +	B5E8	
	D8B8	B6B5	
	B7A7	E6C6	
	B8A8	C6C1 +	
	G1F2 F2G1	C1C2 +	This allows White to double Discouth Others to Link
30.	1 201	F6H5 ?	This allows White to double R's on the 8th rank which

would win, though it's difficult to discover how Black

Resigns(0-1)

could prevent this threat in conjunction with E4E5. Instead White goes pawn-grabbing.

38. 39.	A7xA6 G2G3 G1F1 F3F4	H5F4 F4H3 + C2xH2	White should quickly double R's on the 8th rank, e.g. 40.A6B6
42. 43.	F1E1 E1E2 F4F5	H2F2 + F2F3 F3xG3 H3G5	*
45.	E4E5 E2D1 F5F6 Resigns	G3G4 G4E4 G7xF6	— Now White no longer has a chance to double on the 8th with any effect, though his resignation is a bit premature.

GAME 7

Sicilian Defence - Najdorf Variation

Guess: White: Computer

Black: Human

The singularly best game of the set of 10. White is a computer. Black is probably a human in light of his positive, determined play. After a book opening Black plays consistently and finds a brilliant stroke in 24.C4xA3!! His play then slacks a bit, but is adequate to win.

quat	quate to win.				
	WHITE	BLACK			
2. 3. 4. 5. 6. 7. 8. 9. 10.	E2E4 G1F3 D2D4 F3xD4 B1C3 C1G5 F2F4 D1F3 0-0-0 G2G4 G5xF6	C7C5 D7D6 C5xD4 G8F6 A7A6 E7E6 F8E7 D8C7 B8D7 B7B5 D7xF6			
	G4G5 A2A3		it's all book up to here when Black diverges from the main line which is 13A8B8. Now White might try the very human sacrifice 14.D4F5!!? (Velimirovic) e.g. E6xF5 15.C3D5 C7D8 16.E4xF5 etc. with strong attacking chances.		
	H2H4	0000	This is probably too slow here.		
16.	F1E2 H1G1 H4H5	C8B7 F8C8 D7B6 D6D5 !	Black is building up his attack patiently and soundly. The classical Sicilian equalizing move. This is why I suspect that Black is human. Computers have not yet been taught the "hows" and "whys" of such moves.		
	D1D3	E7C5 !?	Also strong is 18.D5xE4 19.C3xÉ4 B6D5 with board-wide control. Now White can close the center as he does.		
	E4E5 G1G3	B6C4 C7B6 !	White's next move (21.F3F2?) voluntarily blnds his pieces. It is interesting that two masters, namely Victor V. Palciauskas, likely World Correspondence Champion, and this writer instinctively would chose 21.D4B3 here, as would most people. There are many promising continuations for Black in that case and one cannot be sure of what he saw, but perhaps it was: 21C5F2 22.G3H3 (22.G3F3 F2E3+ etc.) C4xB2! 23.C1xB2 C8xC3!		

24.D3xC3 D5D4 etc. with strong attack. Black proceeds
with his Q-side attack very logically and consistently as
only befitting a human!

21	F3F2 ?	A6A5	only bontaing a numan.
	D3D1		Disable month of ready, see the buildings about which seemes in
22.	וטפטו	B5B4	Black must already see the brilliant shot which comes in
00	0044	0504	two moves, otherwise he would not allow 23.C3A4.
	C3A4	C5xD4	
24.	F2xD4	C4xA3 !!	(DIAGRAM) A very precise and original combination
		V-20	which caps Black's attack.
	B2xA3	B6C6	
	A4C3	B4xC3	
	G5G6	F7xG6	
28.	H5xG6	H7H6	In the ensuing play from her Black must keep a grip on
			the position despite White's temporary initiative.
29.	E2G4	C6E8 !?	
30.	D4B6	B7C6	
31.	G3xC3	E8xG6!	
32.	D1G1	G6E8	
33.	C3H3 ?		White should play 33.C3G3 so that he might obtain
33.		E8E7	serious counterchances on the g-file.
34.	G1G3	G8F7	White should save this check. Instead 35.B6G1 allows
35.	G4H5 +?		the Q to participate with threats (i.e. 36.G4xE6 +). A con-
			tinuation could go: 35F7F8 36.F4F5 C6A4
			37.G4D1 E6xF5 38.H3xH6! etc.
35.		F7F8	OT. CAPPT COXTO CO. HOXTIO: C.C.
	G3G6	C6A4	
	G6G2	C8C6	
	B6D4	C6C4	
	D4E3	A8B8 !	Finally Block's forces are propored for a conclusive at
55.	D4L0	AUDU:	Finally Black's forces are prepared for a conclusive at- tack which cannot be thwarted and he finishes neatly.
40	G2F2	E7B7	tack which cannot be thwarted and he linishes heatly.
	H5G6	B7B1 +	
	C1D2	C4xC2 +	
	G6xC2		
		B4xC2 +	
44.	D2E1	C2D1 + +	
		0:1	

GAME 8

Nimzo-Indian Defence, Saemisch Variation

Guess: White: Computer

Black: Computer

This game is most probably played by the same two contestants as in Game 6 where again both participants are definitely computers. Again Black develops without purpose (9. ...C8D7, 10. ...D8E8, 11. ...C6E7) only here 11. ...C6E7 replaces 11. ...E8E7, and again White does not carry out a plan such as advancing his center pawns.

• • • • • •	vinte dece her carry ear a plan each ac acraneing inc center painter					
	WHITE	BLACK				
1.	D2D4	G8F6				
2.	C2C4	E7E6				
3.	B1C3	F8G4				
4.	A2A3	B4xC3 +				
5.	B2xC3	0-0				
6.	F2F3	D7D5				
7.	E2 E 3	B8C6				
8.	C4xD5	E6xD5				
9.	F1D3	C8D7				
10.	G1E2	D8E8				
11.	0-0	C6E7				
12.	D1 B 3 !?		This make more sense than 14.D1B3 in the aforementioned game since the Q cannot be immediately attcked and the P/b7 is threatened.			
12.		A8B8				

13.	E2F4 ?!		Stronger here is 13.a3 a4 later followed by C1A3 or 13.E3E4.
13.		D7F5!	A good move for it gets rid of White's "good" bishop while fighting for the e4 square.
14	C1D2	F5xD3	willo fighting for the of oqualo.
	F4xD3	A7A5 ?!	Rather inappropriate. BetterE7F5 followed byF5D6.
	D3F4	A5A6	,
17.	B3A2	E8B5 ?!	The Q has no business exposed here.
18.	A1B1	B5C6	· ·
	B1B4	C6A6	
	A2C2	B7B5	
21.	E3E4!		Finally White finds the way to improve his position. Also
			strong was 21.F4D3.
21.	* * *	A6C6	Black has wasted a lot of time with these Q-moves.
22	E4E5	F6D7	
	F1B1	B8B6	
	D2E1	C6H6	
	C2C1	00110	An unusual move it would seem in that it walks into a
			sort of a pin, but it creates the chance of a discovered at-
			tack. Why not 25.E1D2?
25.		C7C6	And now the discovered attack motif cannot be evaded
			without material loss.
	E1D2	B6B8	
	F4D5	H6E6	
	D5F4	E6H6	
	C3C4 !	E3E6	A correct advance expanding White's plus.
29.	C4xB5	E7F5 C6xB5	
	C1C3	G7G5 ?	Very weakening in a bad position.
	F4E2	aras :	32.F4H3 wins further material.
32.		F8C8	SEN 4110 WING PARTIES MATCHAIL
	C3D3	F5H4	
	B4xB5	B8xB5	27
	B1xB5	G8F8	
36.	B5D5		The incursion of this rook spells the collapse of Black's
			game which follows very quickly.
36.		C8C7	
	D5D6	F7F6	
38.	E5E6	D7C5	
39.	D4xC5	Resigns	

Ruy Lopes, Exchange Variation

Guess: White: Computer Black: Human

White plays a few senseless moves in the opening such as 8.C3A4? ad 9.C1G5? certifying that it is a computer playing these moves; however Black over-commits his Q-side pawns enabling White to hold a positional plus in the middlegame. Black tries to struggle for the vital central squares, but the WQ infiltrates the Q-side bastion of Black's pawns, in true computer style. Just when White seems to be getting away with his greedy play he leaves his back row unprotected and must soon succumb.

	WHITE	BLACK	
1.	E2E4	E7E5	
2.	G1F3	B8C6	
3.	F1B5	A7A6	
4.	B5xC6	D7xC6	
5.	0-0	C8G4	
6.	D2D3		Normal is 6.H2H3 when Black replies H7H5 etc.
6.		F8C5	
5. 6.	0-0 D2D3	C8G4	Normal is 6.H2H3 when Black replies H7H5 etc.

7. 8.	B1C3 C3A4 ?	G8E7	This and Military mout mouse our years about sinking about
8.	CSA4 ?	C5A7	This and White's next move are very short-sighted stabs.
	C1G5	B7B5	
	A4C3	F7F6	
	G5E3	A7xE3	
	F2xE3	B5B4 ?!	This gains space but means that the Black Q-side pawns can be fixed in contrast to 12 C6C5.
13.	C3E2	0-0	
14.	D3D4 ?!		This is premature. Better to first play D1E1, E2G3, etc. with the eventual exploitation of the f5 square.
14.		A6A5	
15.	D1D3	D8D6	
16.	D3B3 +?		A rather pointless move in light of the obvious response which Black has available.
16.		G4E6	
17.	C2C4	C6C5	
18.	D4xE5	F6xE5	
19.	A1D1	D6C6	
	B3D3	E7G6	
21.	F3G5		White tries to demonstrate an advantage; 21.E2G3 with G3F5 to follow was another way to do this.
21.		G8H8	
22.	G5xE6	C6xE6	
23.	D3D5	E6E7	
24.	D5C6 ?		White's possession of the open d-file spells an important edge which should be exploited by 23.F1xF8+followed by E2G3.
24.		F8xF1 +	
25.	D1xF1	A8D8	
26.	C6B5 ?!		This and White's next are poorly motivated, leaving his Q isolated and offside, though as the play goes it seems that he can get away with it.
26.		E7D6	g g
27.	B5xA5	D6D3	
28.	A5xC7	D3xE3 +	
29.	G1H1	E3D2	
30.	F1F7 ?		With an extra pawn and the near symmetry of the pieces White should be better, but this move leaves White's
30.		D8G8	back rank and K very exposed.
	C7xC5	Daga D2xE2	
	A2A3	G6F4	
	C5G1	E2xC4	
	F7D7	C4xE4	
J -1 .	Resigns	O+XL4	

GAME 10

Center Game

Guess: White: Computer

Black: Human

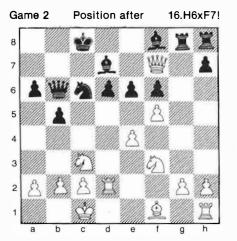
White's dubious opening suggests that he is of machine origin. Any human Category I or II player would know better than to develop his Q in the early opening. Both sides proceed to play some questionable and strange moves such as 7.E3G3?!, 8. ...E7B4, 9. ...C6E7!? from which it is clear that neither player is set upon a definite course, though Black does temporarily gambit a pawn leading White into the confusion which conveinces him to give up a piece.

	WHITE	BLACK
1.	E2E4	E7E5
2.	D2D4	E5xD4
3	D1vD4 21	

White would be better advised to head for transposi into

the Scotch Game with 3.G1F3. The text simply loses time as is well known.

			time as is well known.
3.		B8C6	
4.	-D4E3	G8F6	
5.	C1D2	F8E7	
	B1C3	D7D5 !	A good move because when you have superior development you should open the center.
7.	E3G3 ?!		,
			Wasting more crucial time.
7.		0-0	
8.	F103	E7B4	
9.	E4xD5	C6E7 !?	Better than simply recovering the P with 9F6xD5 or 9F8E8 + 10.G1 E2.
10.	D2H6 ?		White loses more time.
10.		C8G4!	Black interferes and develops.
11.	H2H3	E7xD5	·
12.	H6xG7 ?		White commits "suicide" giving away a bishop thereby hastening his defeat.
13.		G8G7	
13.	A2A3	F8E8 +	
14.	D3E2	B4D6!	Black wins a piece by deflecting the WQ and the rest is
			easy.
15.	G3H4	D5xC3	•
16.	H4G5 +	G7H8	
17.	B2xC3	D6E5	



E5xC3 +

G4xE2 C3D2

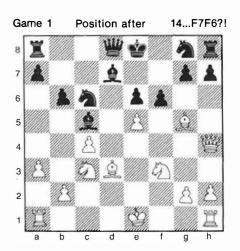
D8E7

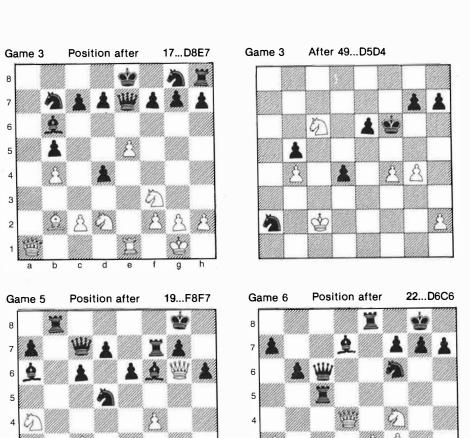
18. A1B1

19. E1F1 20. G1xE2

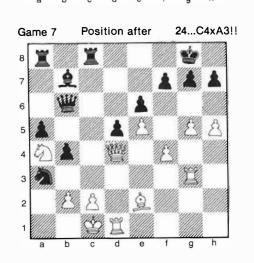
21. G5F5

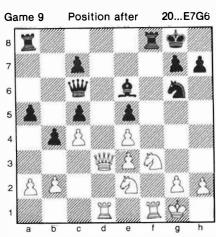
22. Resigns





3





g

Summary and Conclusions

Less than a few years ago it was clear that the top micros played in the 1700 (Category II) range on the Elo rating scale. Furthermore their play, largely idiosyncratic, was easy to distinguish from human play. As can be seen from my results in attempting to guess what the origins of the White and Black players (whether human or machine) neither do these two properties any longer hold true. There can be little doubt that top micros are now playing in the 1900 - 2000 range. They are clearly searching a few ply deeper than a few years ago and making fewer of the obscure, bad and inexplicable moves we'd become used to. In many cases opening books have been largely expanded and this has resulted in fewer errors of a critical nature in the early stages. On the other hand opening play is still not varied as a result of previous experiences.

In a number of cases I had been certain that humans were *not* playing due to the "short-sighted" nature of some of

the moves played. As it turned these bad moves were in fact played by Category I and Category II human players. Perhaps this should not be so surprising since such players, whether of machine or human origin, must occasionally make bad moves as otherwise they would be masters.

Most noticable in terms of the improvement in computer play was the ability to build-up and successfully execute an attack on the opposing king as exemplified by Games 1.2, and 7 (Nimzo-Indian Defense, Richter-Rauzer variation of Sicilian Defense, and Naidorf Variation of the Sicilian Defence. respectively). In Games 4 and 5 the play by Black (French Defense, Winnawer Variation, and Sicilian Defence, Four Knights Variation) was very tedious but for the most part very appropriate as to the needs of the positions. Black loss in the former game was tragic. The play in Games 3,6,8, and 9 (Ruy Lopez, Nimzo-Indian, Nimzo-Indian, and Ruy Lopez, Exchange Variation, respectively) was variable, while in Game 10 White's play was distinctly bad.

Danny Kopec

The players in the 10 games were as follows:

#	White	Black
1	×Mk V	⊀G. Gribble (1720)
2	Elite	XJ. Burnham (1916)
3	xJ. Burnham (1916)	Elite
4	Elite	Mephisto*
5	Elite	Mephisto*
6	Mephisto*	Elite
7	Elite	XSC9
8	(Mephisto)	SC9
9	SC9	XMephisto*
10	MkV	xMephisto⁺

*This was a Mephisto prototype, slightly weaker and more computerlike than the later production model.

CONCLUSIONS II

In four of these 10 games, three programs were identified as "human" (2 Mephisto, 1 SC9 and 1 Mk V), while the three human players were identified as computers (!). If we assume this experiment to be reliable, the first conclusion should be that in many games there are no major differences between some chess computers and human players of the

same approximate strength (1700-2000). It's still true that a computer will be stronger tactically and weaker positionally than players rated in the same category, but this tactical/positional difference tends to be minimized in the best of the most recent programs (e.g. Prestige and Mephisto) and seems to no longer justify the expressions "human chess" vs. "computer chess" when talking about under-2000 players vs. the best

of today's microcomputers.

Second, the three human players were identified as computers because of their lack of a plan or because of their inability to always play moves relevant to the position, both characteristics of the so-called "computer game."

Third, we can observe relevant differences between computers in the fact that Elite played in 6 of the 10 games and was identified each time as a computer, while Mephisto, SC9 and Mk V fared much better.² This, together with the increased strength of the latest and much more "humanlike" chess microcomputers, should suggest something to programmers who want to come with stronger and more enjoyable chess machines.

Also, I would recommend playing through some of the games from the fall '82 tournament, particularly those of Prestige, many of which show excellent levels of "creativity" and "imagination."

Finally, if anything has been proved by this experiment it is the fallacy of some statements that are common among chess club players, such as "Chess computers are only clever toys," or "Chess computers don't play real chess."

- 1) The main criterion in the selection of these 10 games was the avoidance of computer end-games, the weakest and most "computerlike" aspect of today's machines. Even so, at that time I didn't have any games played by Prestige. Otherwise, the result of the experiment would have been even more spectacular.
- 2) The fact that the majority of the games played by computers were identified as such doesn't seem very relevant, since the two humans that played in three games were also identified as computers.

E.I.

UPGRADABILITY

I - The Modular Concept

Much emphasis has been placed on the fact that some chess microcomputers have modular programs. Manufacturers of such machines promise oncoming stronger ones, the implication being that these machines will not become obsolete in the near future; thus, a potential buyer can "invest" rather than simply "buy."

If we take a closer look at what has

happened in the past two years with such "modular" games we will observe that the potential of this concept has been wasted in most cases and not even actualized in others. Perhaps this possible upgradability has been more of a marketing ploy than a real benefit to the buyer.

In the first place, we have the example of this wonderful machine called Mk V. Modular in many ways, it can accept not only new programs but also a printer and, as advertised one year ago, an autoresponse board. Nevertheless, the promised programs for chess and other games have never reached the market. and the same has been true for the printer. The board, to be marketed later this year, will be of the pressuresensitive type, less advanced and not as easy to use as the originally promised one. Recently I got a new chess program module: Philidor, I have only had time to play some 25 games with it, but it does not seem to be any stronger than the original Mk V. What happened then with the proud owners of the Mk V that bought it because of its upgradability? I imagine they are as frustrated as I am.

The newest Fidelity chess microcomputers. SC9 and Prestige, have built-in programs that can accept plug-in modules for the different phases of the game. The two modules currently available are opening books which, in my opinion, don't add anything to the basic strength of the program. To the contrary, because of interfacing problems to be dsicussed later, it seems reasonable to believe that the SC9 will do as well or better in a tournament without the opening book modules as with them. It's true that a large opening book can be more fun than a small one, and that an overly small one (e.g. Conchess) can be a real pain. But in the specific cases of Prestige and SC9, where it is so easy to enter an opening position, these two modules seem to be basically gimmicks.

Applied Concepts approached the problem in a more interesting way. After Sargon 2.5 they introduced Morphy, roughly 100 points stronger and a partial success in the application of the modular concept. Even so, Grunfeld was basically another gimmicky book, and Capablanca didn't seem to add more than 20 or 30 points to the total strength. After buying the original M.G.S., Sargon 2.5, Morphy, Grunfeld (with upgrade) and

Capablanca (also with upgrade) we had spent more than \$600, \$400 of them to improve the initial strength by some 100-130 points. If one had purchased, for example, a Mk V as an alternative to these expensive points, he would have two computers instead of one, different playing styles and a slightly stronger program.

Mephisto, also a modular game, came recently with a new and stronger program. The problem this time is that the clock speed has been increased from 3.5 MHz. to 6.1 MHz. Thus, in order to get the most from the new program it's necessary to buy a new machine.

Finally, Conchess and Savant have yet to prove the validity of the modular concept, since new modules for their machines either don't yet exist (Conchess) or have not yet been tested (Savant).

To this rather discouraging panorama I should add the fact that, except in the case of Conchess, only the software is modular. When new and faster microprocessors are used, your machine will be obsolete, no matter how "modular" it appears to be in the adds.

It seems quite obvious that the modular concept has not been very successful in the past and that this feature by itself should not be decisive when selecting a machine. Now it is up to the manufacturers to prove otherwise.

II - The Opening Book

Chess programmers and manufacturers have approached the opening book problem from various different angles. Applied Concepts and Fidelity Electronics seem to be in favor of the "bigger is better" school, offering us two opening modules each (Fidelity threatens us with a third one for Prestige and SC9), the lines of which are chosen with little discrimination. The Conchess built-in opening book is an extremely limited one. This machine will open only with P-K4 as white, and as black it will play only the Bird variation against the Ruy Lopez and the Tarrasch defense against P-Q4. The purpose of this selection is that these openings seem to interface particularly well with Conchess's middle-game style.

The Scisys Mk V is limited to a few unusual openings and defences, with

the pecliarity that it will play a maximum of 5 moves automatically, while the next 5 or 6 moves still in book will be played sooner or later, according to the tactical and strategical problems of the position. This makes Mk V's openings sometimes more interesting and gives the illusion that this machine "understands" the ideas behind a given opening.

Mephisto and Savant will play a selection of basically sound openings, very much like the ones included in Champion, Elite, and SC9 in what seems to be a very straightforward approach to the problem, without any obvious pretensions of hugeness or of interfacing considerations

I have been using the word "interfacing" without a previous explanation of what I mean by this. What I am trying to say is: How valuable is an opening book that will follow to the 16th move the latest sub-variation of the Richter-Rauzer attack in the Sicilian when, immediately out of book, the chess program that takes over doesn't understand a thing about the resultant position? I can give two specific examples: When Morphy plays black in a Marshall attack (included in Grunfeld), it will play 11 . . Bf6, initiating an attack on the queen (!) side; or when Prestige plays white in a King's Gambit (included in the PC16 opening book module), despite having an excellent position after book it will panic at being a pawn down and will try to repeat moves, playing for a draw (game # 29). Most pathetic. In my opinion, it does not make any sense to include an opening that sacrifices a pawn for the positional advantage when the program that takes over is incapable of understanding wherein lies the compensation. And these two cases are more the rule than the exception, in the sense that today's opening books for chess programs seem to be, in many cases, written down without consideration for what kinds of positions the middle-game program "likes" or "doesn't like." This is noticeable in some of the games from the fall '82 tournament.

I guess that one way to test the effectiveness of the opening selections in the machines would be to compare their performances with white and with black. Looking at the games from the fall '82 tournament, Conchess was the only machine scoring significantly better with the white pieces. It should be

pointed out, however, that Conchess may have played too few games to pro-

vide accurate statistical information.

Machine	Color	Wins	Losses	Draws	Total	Total Games
Prestige	White	24	5	3	25.5	70121 221110
	Black	23	3	6	26	64
Elite	White	22	11	9	26.5	
	Black	26	8	8	30	84
Mephisto	White	7	8	7	10.5	
	Black	11	8	3	12.5	44
SC9	White	11	14	2	12	
	Black	8	13	6	11	54
Conchess	White	4	5	3	5.5	
	Black	3	8	1	3.5	24
Totals	White	68	43	24		=:
	Black	71	40	24		

It's generally assumed that a given player should do better with white pieces than with black, but as far as I know this has been proven only of strong players (2300-2400 and above). This computer performance does not nessarily indicate a basic difference between humans and machines of the same strength (under 2000), but rather simply the latter's inability to benefit from the advantage of playing with the white pieces and, then, the inadequacy of the current approaches to the opening book problem.

In my opinion, the positive aspects of today's opening books are: 1) They help to avo

move instantaniously, leaving more computing time after book. 3) They offer more fun to the owner. But the opening book modules that can be added to an intrinsically sound, although more limited built-in book (e.g. SC9), don't seem to increase at all the Initial strength of a given program.

III - The End-game

Capablanca, so far the only end-game module to reach the market, was supposed to solve some of Morphy's basic weaknesses in this phase of the game. However, I question the end-game character of a program that doesn't recognize under-promotion or that is incapable of understanding the most basic laws of the klng's opposition (this second problem was improved in the updated Capablanca). In a simple position with white king on D1, white pawn on D2, and black king on D8, with white to play.

the first Capablanca was unable to promote the pawn. Because of other important limitations (e.g. It tends too often to play moves irrelevant to the position, and also to blockade its bishop with its own pawns), Capablanca (1st or 2nd generation) added very little to Morphy's strength - maybe 20 to 30 points. Even this could be considered generous since the only results I have for comparison are GGM - Champion and Morphy-Champion, both played at 40/2: GGM and Champion tied at 12-12 while Morphy defeated Champion 5.5-4.5. Anyway, looking at the many games played by GGM it seems difficult to believe that Capablanca didn't add anything to GGM's strength.

It's generally accepted that the endgame (particularly rook endings) is the weakest part of today's chess microcomputer programs. It would seem quite reasonable then to desire an end-game module that could cure, even if partially, this basic sickness. Even if we admit that a module stronger than Capablanca could be written, an important problem will remain unsolved: If the basic endgame knowledge is confined in a program separate from the middle-game, how is it then possible for a chess computer to play the middle-game taking into account how favorable or unfavorable the resultant end-game will be? In my opinion, a separate program for the endgame could solve some specific problems, but it seems to be more of an afterthought than the best way to do things.

IV - Conclusion

When a human player selects an opening repertoire he takes into account the resultant positions and how much he likes or dislikes to play them. Also, when playing the middle-game he keeps in mind the kind of end-game that can result after accomplishing a given strategy. In other words, the game is, or at least tends to be, considered as a unit from the first move to the last. In contrast, today's chess programs seem to divide the game into three sub-games not necessarily interrelated, a peculiarity that certainly doesn't improve the game they play, let alone their "humanlike" quality.

I see no reason why the game of chess shouldn't be considered by programmers and manufacturers alike as a unit per se, and why the effort to offer a modular game can't be oriented towards a chess computer that will be modular where it counts: the hardware; e.g. a hand-held unit (like Mephisto) that can be connected to an auto-response board (also like Mephisto's ESB) or to a small LCD screen, with modular program and microprocessor (like Conchess), and possibly with some accessories like a printer. I realize that this is my personal dream in this field, but I also believe that such a machine, with a top-notch program and state-of-the-art electronics, would be a great success in the chess computer market.

E.I.

The Mephisto Concept A "Humanlike" Thinking Chess Program T. Nitsche

In the following I would like to introduce the Mephisto concept to the general public. Mephisto (authors: E. Henne, T. Nitsche) is not a fixed program, rather it consists more of a set of ideas, which we are continually developing further. Contrary to the general belief the basic problem of chess programming does not lie in the optimization of pre-calculations, rather in the most exact possible evaluation of chess positions. All our ideas in the tactical and positional regions are to be examined with this point of view.

I don't wish to burden the reader with technical details such as "Quick movements" or "Exact static approximation of the consequences of capture," etc., as this would greatly exceed the scope of this article. Furthermore, I am unable to give final dtails here, as premature publication would endanger our "technological advance."

Before going into the Mephisto concept more deeply I would like to define the most important basic concepts for those readers who have not yet acquainted themselves with this field.

The "decision tree" represents the possible combinations of moves stemming from an initial position (="root") from which a move should be found. The branch-forks are called "nodes" and represent positions. Nodes are connected by branches, which represent the moves. The "depth" ishow many moves one needs to reach a node from the root. Exactly one branch leads to each node (except the root), and according to the situation none, one, or several branches lead away from it. If no branch leads away from a node it is called an "endnode." A "good move" means for Mephisto those moves whereby the moved piece cannot be profitably taken by the other side, i.e. no threat of material loss.

In general one differentiates between two concepts or types of chess program.

The Shannon-A method: Also called the "brute-force method" (raw power). Up to a certain depth all combinations of moves are looked at. Additionally many brute-force programs look at all captures in the end-nodes.

The Shannon-B method: Hereby at a node a choice is made among the possible moves, and only the chosen moves are analyzed further. This concept is more flexible than type A, but

distinct disadvantage that under some circumstances it can overlook good moves or enemy threats.

The current chess programs with which we are acquainted can be only very unsatisfactorily characterized by Shannon A or B. Many programs, such as Mephisto, are mixed forms. The following criteria are helpful in describing chess programs:

-What are the selections criteria for moves at a node (with dependence on e.g. depth)?

-What are the criteria for breaking off the calculation of the consequences of a move (e.g. the move's goal can no longer be reached)? -How much "chess" will be played at each node, i.e. how inclusively will a position be judged? Will an inclusive evaluation be made at every end-node, or only for the nodes at depth 1?

The tactical Mephisto concept

- 1) The following selection criteria and rules are used for the breaking off of calculations:
- 2) There is always a minimal depth MIN.T. (in connection with e.g. the level of ply) as well as a maximum depth MAX.T.
- 3) If a node has a calculational depth less than or equal to MIN.T. then all possible moves are analyzed further. Up to a certain depth Mephisto acts as a brute-force program, so as not (as with some other selective calculating programs) to overlook simple sacrifices and traps on both sides.

For nodes with depth greater than MIN.T. and less than or equal to MAX.T. there are various possibilities, for example:

- 4) If there are pieces threatened at a node, moves which "quiet" the situation will be examined (e.g. move it away or interpose a piece).
- 5) If "good" moves are possible, these moves will be analyzed further. In the best case an attempt at mate will ensue. At tournament level Mephisto II can recognize up to a mate-in-4 in the midgame or a mate-in-5 in the end-game.
- 6) For pawns on the 7th rank the conversion will be analyzed further. On principle every win of a piece is analyzed further for possible traps.
- 7) If at a node of depth equal to MIN.T. +1 there are "good moves" in the position, then these variations are analyzed further. In principle, destabilizing moves should be looked at for as long as possible, in order to make the most exact evaluation of the position.

Additionally Mephisto has a number of time-saving stopping rules. For example, if, even by an optimistic move evaluation (every move that Mephisto makes is given an expected value), Mephisto cannot reach the value of the heretofore best combination of moves, then the combination of moves will be broken off. As an example, if a queen has already been sacrificed and Mephisto only has the possibility of attacking a rook, then the combination will be abandoned. If however the possibility exists for a "good" check, then the move is analyzed

further.

Of course Mephisto also uses a number of exact techniques (Alpha-Beta algorithm, window technique, killer heuristic, etc.) with whose help not every senseless combination need be looked at. By exact I mean that the result of the move selection is not affected by such techniques. The time expended for the move selection is thereby greatly reduced (exponentially in the case of the Alpha-Beta algorithm); the program is made "fast."

Everything said up to now concerns itself solely with the tactical aspect of the Mephisto program. In order to win a game, however, it is not sufficient to merely avoid losing pieces, or to win a pawn. For this reason modern, state-of-the-art chess programs have a number of single evaluations called heuristics with whose help they strive to win material in the long run. In the short run however they "only" try for positional advantage.

The positional Mephisto concept

In contrast with pure brute-force program Mephisto can allow itself the luxury of developing a positional concept. Different heuristics are heeded for the various individual chess pieces. I would like to list the most important ones.

Pawns: Tempo, advance, center, and, recently, also doubled and free pawns. The pawn structure as well as isolated and backward pawns will be taken into account.

Knights: Tempo, centralization.

Bishops: Tempo, long diagonals, confinement, as well as fianchetto. Thereby Mephisto's haardfing of certain openings (e.g. the In-

improved.

Rook: Half-open and open files, doubling.

Queen: Holding back in the opening, becoming active in the middle-

game.

King:

Striving toward a safe, castled position, castled-king pawn pattern, remaining close to it's own pawns, centralization in the end-game.

dian systems) is considerably

In the general play of the pieces there are further priorities for the attack on the enemy king, as well as for defending it's own position and pieces. Mephisto II's manner of play is much improved by the confinement heuristic. The program can now build and recognize even complex threats in the middle-game. Furthermore, there are a number of end-game heuristics which will be much more meaningful in the future, such as the opposition, critical strokes in pawn endings, correct positioning of rooks in rook endings, or even knight + bishop mates.

Of course, Mephisto differentiates among the applications of these heuristics according to the opening, middle-game, or end-game. In the opening much value is put on e.g. the tempo (i.e. quick development), while attacking plays practically no role. The division of the phases of play by Mephisto is not fixed by the number of moves, but is decided by the state of the game. The middlegame is established after about 8 opening tempi, but the end-game is dependent on material.

The heuristics of the chess programs currently on the market vary considerably. In a sense, they each have their own "chess style." The selection from amongst several approximately equally strong chess microcomputers could thus be almost a matter of personal taste. The computer-chess enthusiast, however, in deciding on a particular system, would like to know about the shape of future developments.

In my opinion the programs based on the A strategy have largely arrived at a threshold; they can still get faster, but hardly "better." One should note that even with an increase in speed by a factor of 5 the calculational depth using this strategy would be increased by less than one half of one move! In the magazine "DM" (issue 11/81) I ventured the prediction that with our program "Orwell" for large computers we could reach a playing strength of 2000 Elo points. By the end of 1983 I hope that Mephisto will also be able to realize this. And thus the "humanlike" thinking chess program will at last have made the breakthrough possible.

The Past and Future of Microcomputer Chess

by Kathe Spracklen

Microcomputer chess is a rather new field: only five years old. Yet, no one who has observed events in the field since its inception will deny that tremendous progress has been made. The firs microcomputer chess machines sold to the public were scarcely able to move the pieces; some could not even castle. Their ratings could, generously, be estimated to be in the 900's. Now, only five years later, the best micros rate in the 1900's: this is an average improvement of 200 rating points per year! Certainly, we cannot expect this pace to continue during the next five years. But, what can we expect to see? A look into the sources of past improvements may help to answer that question.

Growth in microcomputer chess has come about through improvements in hardware and in software. Till now, hardware improvements have been mainly faster and faster computer speeds. Processors are now available that run about four times faster than those used five years ago, and that increased speed has resulted in stronger play. Software improvements are program changes that improve the playing strength. Some of the software improvements have also been speed related. More efficient coding can sometimes bring about as much improvement in speed as a faster computer chip. But, not all the improvement in the microcomputer chess machines has been due to speed. Programs have also incorporated added chess knowledge. Early chess computers, for instance, knew nothing of pawn structure. Even the simplest principle of pushing passed pawns toward the Queening Square was not within their grasp. Today we would not be seeing the strength that we do in the best microcomputer chess machines, if the only improvements had been to their speed. So, where would we look for progress in the chess machines of tomorrow? To hardware or to software? To speed or to knowledge?

Is there hope for added speed? From a software perspective the outlook is pessimistic. Code can only be optimized so far; and these tiny computers are really being pushed to their limit. If we look to the chip makers, we see a brighter

future. Faster microprocessors and processors with greater power continue to become available with each passing year. Each hardware advance threatens to obsolete all previous processors. Assume for the moment that the next five years will bring us the same speed improvement as the last five years, namely that chess computers five years hence will be running four times faster than today's models. What effect would the increased speed have on the playing strength of the program if no improvements were made to the software? There is a well-known formula devised by Ken Thompson which relates playing strength of a chess program to speed.* Using Thompson's formula, we would expect a program which currently plays at 1900 strength to increase to 2260 strength due to improvement in speed alone. As pleasant as this prospect may seem, we must remember that the programmers will also be active in the coming years.

The prospect for improved performance due to increased chess knowledge cannot be measured in a tidy formula. In fact, Thompson's formula predicts that added knowledge will result in no improvement in playing strength at all! I do not share that grim view, but there are problems associated with the attempt to add chess knowledge to the program. The principal problem is that adding knowledge can easily slow the program down. In the extreme case, the slow-down produced by added knowledge can actually decrease the playing strength of the program. The other major problem is that adding code space can make the machine more expensive. But, though there are two major problems, there are three major payoffs. The first significant payoff is the obvious one: if a program understands Principle X, then it will play correctly in situations where Principle X is a factor. As a result playing strength will increase noticeably. A less obvious payoff is what I've been calling the "Multiplier Effect" of added chess knowledge: if a program understands Principle X, then it can threaten to bring about situations in which Principle X will be a factor. Such threats can be handled with all the power that has made full-width programs such renowned tactical fighters. The third. and final, payoff results from the nature of the Alpha-Beta searching process itself. It turns out that the order in which the moves are examined can make a critical differance in the speed of the search. For this reason most programs attempt to sort the moves before performing the search. Added chess knowledge can improve the sorting and thus can buy back some of the time expended on calculation. Properly handled, the addition of chess knowledge to a microcomputer chess program can be an important factor in increasing the program's playing strength.

Overall, the outlook is bright for the future of micro-processor chess. Just how strong the programs may become in the next five years, I could not venture to say. But if the machines reach the 2200 rating level, I'm certain that chess knowledge and not speed alone will be a major factor in the achievement.

The North American Computer Chess Championship

By Danny Kopec

The 13th annual North American Computer Chess Championship held October 24-26 at the Dallas Hilton was won for the third year running by BELLE the program from Bell Laboratories, Murray Hill, New Jersey, authored by Ken Thompson and Joseph Condon, on tie-break over NUCHESS of Northwestern University, Evanston, Illinois (authors David Slate and William Blanchard), CRAY BLITZ of Cray Research, Mendota Heights, Minnesota (authors Robert Hyatt, Albert Gower, and Harry Nelson) and CHAOS of the University of Michigan Computing Center, Ann Arbor, Michigan (authors Fred Swartz and Joseph Berman), all scoring 3-1 in the four-round-Swiss System event.

As in previous years, the tournament was part of the ACM, the annual conference of the Association for Computing Machinery, America's premier society for computer professinals with over 1100 registrants attending. Besides BELLE, the current World Computer Chess Champion and recent runner-up at the U.S. Open Speed Championship. there were 13 other entrants including three new participants: ADVANCE 2.4 (Dave Wilson and Mike Johnson, London, England), SFINKS EXPERIMENTAL (Gainesville, Forida) and PION (Derksen, Huisman, van den Herik, Nefkens, Dekker. Delft University of Technology.

Dept. of Computer Science, Holland). Noteworthy was the improved performance and numbers of micros, at least two of which (FIDELITY EXPERIMENTAL (Fidelity Electronics, by Kathe and Dan Spracklen, advised by Boris Baczynskyi). and PHILIDOR Philidor Software by I.M. David Levy and co-workers) have comcommercial connections. The Tournament Organizing Committee, consisting of Mike Rossi, Robert Hyatt, Ben Mittman (ICCA President), Professor Monroe Newborn (ACM Computer Chess Committee Chairman) and Ken Thompson, was responsible for all the complex arrangements of terminals and telephone links to remote computers around the U.S. and Canada. For the most part, with few exceptions, the telecommunications went smoothly with only minor delays to programs' abilities to complete 40 moves within the normal four hour clocktime sessions.

Professors Ben Mittman and Monroe Newborn (author of OSTRICH, Department of Computer Science, McGill University) require a special tribute, for they have been involved in the organization of all ACM Computer Chess Championships since their inception in 1970. Throughout the 1970's the tournament had been dominated by the continuous developmental series of the program CHESS, from 3.0 to 4.9, authored by David Slate, Larry Atkin, and Keith Gorlen, and later Slate and Atkin only, at Northwestern University, running on a CDC Cyber 176 in" Minneapolis, Minnesota. In 1978, 1980, and 1981 BELLE began its current domination of the event with special purpose hardware hooked up to a DEC LSI-11/13. It has by far the largest opening book size with 350,000 stored positions which have been typed in by Ken Thompson directly from the volumes of the Encyclopedia of Chess Openings published in Yugoslavia. Able to search 100-150 thousand nodes (positions) per second, BELLE is a tough customer, particularly in 5-minute chess where it regularly beats Grandmasters despite the handicap of having to win in less than 60 moves (i.e. it has 5 seconds per move).

In only four rounds it is difficult to distinguish a true Champion, though it is clear that BELLE, CRAY BLITZ, and NUCHESS are all of approximately the same strength (around 2100-2150), being weakest in the endgame while thriving

on middlegame complications when calculaton and tactics are pre-emminent. For the past 3 years BELLE has prevented CRAY BLITZ from taking the title by winning or drawing their last round encounters with the Black pieces. NUCHESS, authored by David Slate and William Blanchard, is an independent program developed by Slate in the last few years, which he now hopes to transfer to a microprocessor from the CDC Cyber 176.

After a few years computer chess programs, like humans, develop certain characteristics or quirks in their play or performance, which distinguish them from others. For years CHAOS has been a perennial second-place finisher to the CHESS series of Northwestern University. It has also been noticable for its most "humanlike" qualities of play, searching fewer nodes than nearly all strong successful programs while geared towards a slower, positional game. However it is also a slower-paced mover than other programs, occassionally losing on time or falling apart due to time pressure. Its authors. Swartz and Berman, are understandably often nervous, for you can imagine their concern when in a lastround encounter against OSTRICH, CHAOS, three pawns up in a King and Pawn ending deferred the promotion of a pawn on the 7th rank for a few moves while Black got a passed pawn of his own. OSTRICH, a perennial participant and loser in the clutch, is noted for unpredictable behavior when winning or in strong positions, giving author Newborn an often grave appearance of fatalism during its games. However OSTRICH came through with the upset of the tournament in the very first round by drawing BELLE, the favorite, though in fact it should have won, having been the exchange ahead for nothing. Newborn has it running in Montreal on an 8-Nova multiprocessing system at McGill University.

In a crucial third round encounter between BELLE (White, 1½) vs. NUCHESS (Black, 2) Ken Thompshon's industrious efforts inproviding BELLE with all of ECO finally paid off. His program essayed the somewhat obscure and antiquated Ponziani Opening, catching NUCHESS in a prepared book trap resulting in a brief and decisive victory for BELLE, to the disappointment of all who expected a great battle.

The continuous, improved performanance of programs running off of microprocessors was indicated by the results of ADVANCE 2.4 and BEBE, both 2½, just behind the winning programs running on bigger machines. FIDELITY EXPERIMENTAL and SAVANT ROYALE scored 2, while PHILIDOR was somewhat unfortunate to get only 1½ due to its third-round game against SCHACH 2.6 having been adjudicated, perhaps incorrectly, a draw, despite it having been two pawns up in a R and P ending.

The tournament director was International Master Michael Valvo, who is also one of American's chess exhibitionists. took on 5 programs entertainment and draw.

Next year's ACM to serve as the World Championship and v York City.

REFERENCES: I would like to acknowledge the A.C.M. Computer Chess Committee's excellent handout.

Danny Kopec Dallas, Texas

				1	1	į		
*	NAME	RATING	Rnd. 1	Rnd. 2	Rnd. 3	Rnd. 4	TOTAL	PLACE
-	ADVANCE 2.4	1760	W/14 1/2	B/9 1	B/2 0	W/13 1	21/2	= 5
8	BEBE	1780	W/10 1	B/6 1/2	W/1 1	B/8 0	21/2	12
6	BELLE	2161	W/9 1/2	B/4 1	W/8 1	B/6 1/2	က	H
4	CHAOS	1800*	B/5 1	W/3 0	B/12 1	W/9 1	ဗ	=
2	CHATURANGA 2.0	1319*	W/4 0	B/10 0	W/11 0	B/14 0	0	4
8	CRAY BLITZ	2258/5*	B/12 1	W/2 1/2	B/7 1	W/3 1/2	ဗ	ī
1	FIDELITY	1890°	W/11 1	B/8 0	W/6 0	B/10 1	7	=7
	EXPERIMENTAL							
ø	NUCHESS	2035*	B/13 1	W/7 1	B/3 0	W/2 1	က	ī
6	OSTRICH	1611	B/3 1/2	W/1 0	W/14 1	B/4 0	172	6 □
¥	10 PHILIDOR	1923*	B/2 0	W/5 1	B/13 1/2	W/7 0	172	6=
÷	NOIA I	UNR	B/7 0	W/13 0	B/5 1	W/12 0	-	13
-	12 SAVANT ROYALE	1700*	0 9/M	B/14 1	W/#4 0	B/11 1	2	= 7
÷	13 SCHACH 2.8	UNB	W/8 0	B/11 1	W/10 1/2	B/1 0	172	6
7	14 SFINKS	RND	B/1 1/2	W/12 0	B/9 0	W/5 1	172	6 =
	EXPERIMENTAL							
	= rating is an estimate	ite						

m (Location) La		Program Size (Program, Data)	Book Size	Nodes/Sec.
m A	ssembly	30 K, 4 K	5,000 pos.	5 K
(at site) A	ssembly	12 K, 16 K	400 moves	20 K
th special C e ay Hill)	•	90 Kb, 5 Kb	350,000 pos.	100-150 K
Amdahl F , California)		700 Kb, 3 Megb.	10,000 pos.	0.85 K
F		20 K, 4 K	1000 moves	.2K
s, MN) as	lotorola 68000 ssembly	ŕ		
em F		200 K 12Mb	30,000 pos.	8-20 K
A nnesota)	ssembly	20 K, 8 K	16,000 pos.	1 K
essing Iniversity,		100 K, 400 K 10 K, 12 K/machine	5,700 pos.	1.8 K
	•	,		
Z	-80 Assembly	32 K, 16 K	4,000 moves	.4 K
ty) C	;	100 K, 10 K	2,000	1-2 K
t site)				
O .		32 K, 2 K 60 Kb, 1.8 Megb.	9,000 pos. 8,000 pos.	.08 K .7-1.3 K
nputer Z	-80 Assembly	20 K, 4 K	256 moves	.1 K
	,	•	•	•

The U.S. Open Chess Championship, 1982

Introduction: Kathe Spracklen
Game Commentary: Borls Baczynskyj

Games Played by the Prestige Chess Challenger in the 1982 U. S. Open

This year's U.S. Open in St. Paul Minnesota was attended by over 400 participants, four of whom were computers. Belle, the reigning World Computer Chess Champion competed via a terminal connection between Bell Labs in Murray Hill, New Jersey and the tournament hall. Belle is rated at approximately 2160. Belle is the work of Ken Thompson and Joe Condon and was operated at the tournament site by Dave Cahlander of Control Data Corp. Cahlander is one of the authors of the former World Computer Chess Champion, Chess 4.9. CHAOS, a program whose authors are Fred Swartz, Mike Alexander, Jack O'Keefe, Mark Hersey and Victor Berman, communicated its moves over the telephone from the University of Michigan. It was represented in St. Paul by Fred Swartz and Mark Hersey. CHAOS took 2nd place in the most recent World Computer Chess Championship and is rated 1820.

The two other computer participants were microcomputers. Both are products of Fidelity Electronics and are programmed by Dan and Kathe Spracklen with the aid of Boris Baczynskyj as chess advisor. One participant, the Sensory Chess Challenger 9, is an off-theshelf product that is new on the market this year. Priced around \$160, the Sensory 9 offers playing skills comparable to the Champion Sensory Challenger in an economy housing. The Sensory 9 earned an event rating of approximately 17-70 in the twelve round event. The other microcomputer present was a preproduction prototype of the new Prestige Chess Challenger soon to be offered by Fidlity. The Prestige set a record in the tournament by defeating an "expert" rated player, the first time a microcomputer has ever accomplished this in a tournament game. The Prestige chalked up a rating of about 1870 over the twelve games in the open.

Both micros were assisted in several of their games by a new tournament

opening book of approximately 12,000 positions that was prepared by Boris Baczyskyj especially for this event. The tournament book will be available this fall as an accessory module for both the Sensory 9 and the Prestige. Games which did not employ the tournament book were played using the CB16 book, a 16,000 position opening book which is currently available as an accessory for the Sensory 9 and which will be supplied free of charge to purchasers of the Prestige. The Sensory 9 utilizes a 6502 microprocessor running at a clock speed of approximately 1.5 mHz. The Prestige uses the same microprocessor, but runs at a clock speed of 4mHz.

K.S.

ROUND 1 White: Chuck Fenner Black: Prestige

1.	d4	d5
2.	Nf3	Nf6
3.	g3	e 6
4.	Bg2	Bd6
5.	0-0	0-0
6.	c4	c5
7.	Nc3	dc4
8.	e4	Nc6
9.	Bg5	e 5
10.	de5	Be5
11.	Qd8	Rd8
12.	Ne5	Ne5
	f4	
13.		Ng6
14.	Nd5	Rd6
15.	f5	Nd5
16.	ed5	Ne5
17.	Be7	Rb6
18.	Bc5	Rb2
19.	Bd4	Re2
20.	Rfe1	Re1 +
21.	Re1	f6
22.	Be5	fe5
23.	Re5	c3
24.	d6	c2
25.	Rc5	Bf5
26.	Bd5 +	Kh8
27.	Bb3	b6
28.	Rc7	Rd8
29.	Bc2	Bh3
30.	Ra7	g6
31.	d7	Bd7
32.	Rb7	b 5
33.	Be4	Be6
34.	Rb5	Rd1 +
35.	Kf2	Rd2 +

36.	Ke3	Ra2
37.	h4	Ra7
38.	Kf4	Kg7
39.	h5	Rf7 +
40.	Ke3	Bc4
41.	Rg5	Rf6
42.	hg6	hg6
43.	Rg6 +	Rg6
44.	Bg6	Kg6
45.	Draw Agreed.	

The Prestige suffered through first-round jitters: its book module was not properly inserted; as a result the machine had to fend its own theoretical path after the second move. A strange machine-like opening resulted: 4... Bd6 misplaced the Bishop; most humans would play 9...cd4 instead of 9...e5; it is not clear why the machine played 10...Be5 instead of 10...Ne5 (as the Bishops are more-highly scored than the Knights the machine is usually more piously attached to its clergy.)

Although the computer's position seemed awkward until the 23rd move, it does not seem that White missed any obvious win. However, it seems that he could have maintained more pressure on Black's position if instead of 14.Nd5 he played 14.e5 h6; 15.ef6 hg5;16.fg5. Also, on White's next turn, a stronger line would have been 15.e5 Rd5; 16.ef6. Subsequently, 26...Kh8 seemed like a less natural move than the centralizing 26... Kf8, which, however loses a Pawn to 27.BB7.

Over-all, though, in this game the Prestige showed its pluck: bereft in the theoretical sea it found its way to the haven of a clearly drawn ending.

ROUND 2 White: Fidelity Prestige Black: David Moody, 2049

1.	e4	e5
2.	Nc3	Nf6
3.	g3	Bc5
4.	Bg2	a 6
5.	Nf3	d6
6.	d4	ed4
7.	Nd4	Bg4
8.	f3	Be6
9.	Ne6	fe6
10.	Bh3	Qe7
11.	Na4	Ba7
12.	Qd3	b 5
13.	Nc3	Nc6
14.	a4	Ne5

15.	Qe2	c 6
16.	ab5	ab5
17.	Be3	0-0
18.	Ba7	Ra7
19.	Be6 +	Kh8
20.	Ra7	Qa7
21.	f4	Ng6
22.	h4	Qa1 +
23.	Nd1	Re8
24.	f5	Ne5
25.	0-0	Nc4
26.	c3	Qa7
27.	Kh2	h5
28.	Nf2	Ne3
29.	Re1	Ng4 +
30.	Ng4	Ng4 +
31.	Kg2	Qe7
32.	Ra1	Rb8
33.	Qd2	Nf6
34.	Qd3	c5
35.	Qf3	b4
36.	с4	Re8
37.	b3	Rd8
38.	Qe3	Re8
39.	Qg5	Kh7
40.	Ra2	Kh8
41.	Qg6	Qb7
42.	Bd5	Qe7
43.	Ra1	Qe5
44.	Ra7	Qb2+
45.	Kh3	Nd5
46.	Qe8 +	and the Prest

46. Qe8+ and the Prestige's LCD's lit up, announcing checkmate after 46...Kh7; 47.Qg6+, Kh8 (or Kg8); 48. Ra8 Checkmate.

An important game for the Prestige since it manages to best a candidate master in its premier tournament. The machine achieves a fine position out of the opening but then plays 8.f3 (instead of 8. Qd3) loosening its King-side. Then, unable to find the idea of 10. Qe2, followed by 11. Be3 and castling, Prestige scatters its minor pieces on its 10th and 11th turn. In a roughly equal position Black, provoked by the Knight on the rim, makes the weakening move 12...b5; the machine promptly takes aim at this target with 14.a4.

Then Black, who had ignored good opportunities to castle previously, gets his King out of the center at the wrong moment, allowing the Prestige to win a pawn because of the overload on Black's Queen. However, the position remains unclear because of the exposed position of the machine's King in the center. With several adroit defensive moves and a little bit of luck (Black should have played 24...Nf8 winning back the pawn with the

better position), the electronic wizard brings his monarch to relative safety on its 25th turn.

When Black needlessly abandons the a-file with 31... Qe7, the artificial chessplayer coolly seizes it by 32. Ra1; then after some mysterious (grandmasterlike?) Queen moves it posts its Queen very nicely with 39.Qg5. The win would still have been a challenge to the cool calculator's capacities, but then its warm-blooded opponent, harried by lack of time for thought, errs with 44. Qb2 + (instead of 44. Re7) and now the Black King is defenseless.

ROUND 3 White: Fidelity Prestige Black: Tim Radermacher, 1991

42.	c6	Rf5
43.	Ra1	Rg5 +
44.	Kh1	Kb8
45.	Ra7	Rf5
46.	c7 +	Kc8
47.	Ra8 +	Kd7
48.	c8 (Q) +	Ke7
49.	Ra7 +	Kf6
50.	Qd8+	Ke6
51.	Qd7 +	Resigns.

The Prestige shines in this game — probably its best performance of the tournament. The game proceeds 15 moves into the machine's book and it achieves a comfortable edge in the Levenfish Variation of the Dragon Sicilian: Black's pieces are disorganized and his pawns are disjointed.

Then, on his 16th turn Black blunders a pawn with Bf5, instead of 16... Bb7 or 16... Bd7. After gobbling up the pawn, the computer holds on to it by neutralizing the threat of Bc3 with its counterattack on the e7-pawn. It also has no trouble coping with the tactical traps that Black keeps throwing its way, e.g. with 20...Rd4 Black is threatening 21...Rc3, winning material but the machine deftly side-steps this with 21. Re6.

With 24.a3 and 27. b4 the machine starts its pawn majority rolling. Then follows a tactical intermezzo, which results in a winning Rook and pawn ending for the Prestige. It transforms its advantage into a point flawlessly.

An impressive performance by the Fidelity Prestige—not only does it keep taut tactical control throughout, but its moves are woven neatly into a coherent strategic design.

ROUND 4 White: Peter Moscatelli, 2142 Black: Fidelity Prestige

		-	_
1. 2. 3. 4. 5.	Nf3 g3 Bg2 0-0 d3 Nc3		c5 Nc6 g6 Bg7 e5 Nge7
7.	a3		0-0
8.	Rb1		d5
9.	Bd2		a 5
10.	Na4		b6
11.	С4		dc4
12.	dc4		Bg4
13.	h3		Bf5
14.	Rc1		h6
15.	Bc3		Qc7

10. 17.	Qb3	Rab8
18.	Qa2	Nd4
19.	Rfe1	Bd7
20.	b3	Ba4
21.	ba4	Ne6
22.	Qc2	Kh7
23.	Rcd1	f5
24.	e3	e4
25.	Bg7	Ng7
26.	Nb1	Qe5
27.	Nc3	Ne6
28.	Qb3	Ng5 Nd5
29. 30.	Nd5 Rd5	Rd5
31.	cd5	Nf7
32.	Bf1	Qc7
33.	Rd1	Nd6
34.	h4	c4
35.	Qc3	Rc8
36.	h5	gh5
37.	Be2	Kg6
38.	Kg2	Qd7
39.	Bh5 +	Kg5
40.	Rh1	Qe7
41.	Rh4	Qf6
42.	Qc1	Qe5
43.	Qh1	Qd5
44.	Be8	Kf6
45.	Rh6 +	Ke7
46. 47.	Bb5 ab5	Nb5 Qb5
48.	Rh7 +	Ke6
49.	Qh6 +	Kd5
50.	Rf7	Rf8
51.	Qf8	Qa4
52.	Qd8+	Ke5
53.	Re7 +	Kf6
54.	Qf8 +	Kg5
55.	Rg7 +	Kh5
56.	Qh8 Chec	kmate.
Pr	estige has	the better p

16.

Nd2

Rfd8

Prestige has the better position for most of this game against a strong candidate master, but loses the game because it does not know how to utilize its advantages, then becomes cavalier about the safety of its King, and finally succumbs to some sharp tactical shots by its opponent.

The machine plays the opening nicely; it is White that commits the first major inaccuracy by putting his Knight on the rim with 10. Na4. Then, the machine decides to give up its strong white-squared Bishop on its 20th turn to double White's a-pawns. Still, in the position after 25...Ng7 Black stands better because of its superior pawn structure, and because of the possibility of occupying the holes d3 and f3 in White's camp.

However, then the human player nurses his Knight toward the d5 hole in Black's camp, while the machine neglects the possibility of the maneuver Ne7-c6-e5 pointing the steed toward the weak spots in White's camp. But, even though White succeeds in creating a passed pawn on his 31st move, he does not confer any advantage because it can be readily blockaded by the Knight; in addition Black has at least as strong a passed pawn of his own on the c-file.

But then the machine misses several moves (e.g. 34... h5 blockading the Kingside, or 36...Qg7 either displacing White's Queen or heading for an advantageous endgame, or finally 37...h4 38. gh Rg8 + 39 K any Qe7 and it is Black who will have a decisive attack) and allows White's pieces to encircle its King. Finally, with no good move on its 50th turn, Prestige lets out a painful yelp and offers up a Rook. The end is swift.

ROUND 5 White: Fidelity Prestige Black: A. Unger

1. 2. 3. 4. 5. 6. 7. 3. 9. 10. 11. 12.	e4 Nc3 Bc4 Qg4 Qf3 Nd5 Nf3 c3 d4 0-0 Be3 gf3 Nb6 d5	e5 Nc6 Bc5 g6 Qf6 Qf3 Bb6 d6 h6 Bg4 Bf3 Nge7 ab6 Nd8
20. 21.	Bc4 Rf6	Nc8 Nd6
22. 23.	Bd3 R6f1	Kg7 Rhf8
24. 25.	a4 Rf8	Nh8 Rf8
26.	Rf1	Ra8
27. 28.	b3 Kf2	Nf7
26. 29.	Ke2	Rh8 Na5
30.	Bg5	hg5
31.	Rf2	Rh4
32. 33.	Ke3 Ra2	Rf4 g4

34.	Rf2	g5
35.	Rf1	Kg6
36.	b4	Kh5
37.	Rf2	Kh4
38.	c4	g3
39.	Rg2	gh2
40.	Rh2 +	Kg3
41.	Rh5	Rf3 +
42.	Kd2	Kg4
43.	Rh7	Rf7
44.	Rh1	Kf3
45.	Re1	Rf4
46.	Re3 +	Kg2
47.	c5	bc5
48.	bc5	Nf7
49.	a 5	g4
50.	c6	bc6
51.	a 6	Nd6
52.	Re2 +	Kh3
53.	dc6	g3
54.	Re1	g2
55.	a7	Řf8
56.	Ke3	Ra8
57.	Kf3	Ra7
58.	Rd1	Ra3
59.	Kf2	Kh2
60.	Ke2	g1(Q)
61.	Resigns	3 , ,

Black plays an inferior variation against the Vienna Game, and booked-up Prestige achieves a comfortable edge in the opening. Soon afterwards the Two Bishops (vs. Two Knights) are added to White's arsenal. But then the machine does not take advantage of several opportunities to open up the position for the clergy, e.g. instead of the blocking 14.d5 stronger is the fluid 14.f4; rather than 20.Bc4, much more effective is 20.d6 cd6; 21. Bb6. so the Prestige does not understand the opening up of a pawn position to favor the Bishops; when attempts were made to incorporate this concept into the machine's play it was found that the necessary code was so lengthy that it impeded the machine's tactical analysis.

In the more simplified endgame resulting after the exchange on Move 30 White should immediately push its Queen-side pawns, aiming for a break at c5 or a5, eventually producing a passed pawn there. Instead of that Prestige's dilly-dallying (between moves 31 and 46 it makes 12 Rook moves — most of them unnecessary) allows the more purposeful human to carry out his plan of slowly advancing his pieces into White's territory, exhanging off the formost g-pawn, and then nursing the remaining

g-pawn to victory. When Prestige finally achieves its breakthrough on the Queenside and obtain's a passed a-pawn, it's too little and too late.

ROUND 6

White: W. Howell, 1845 Black: Fidelity Prestige

1.	e4	c5
2.	Nf3	Nc6
3. 4.	d4 Nd4	cd4 g6
4. 5.	Nc3	go Bg7
6.	Be3	Nf6
7.	Nc6	bc6
8.	e 5	Nd5
9.	Nd5	cd5
10.	Qd5	Rb8
11.	0-0-0	Bb7
12.	Qd4	0-0
13. 14.	Qd7 Qe7	Qa5 Be5
14. 15.	Bd4	Bd4
16.	Rd4	Qa2
17.	Qa3	Qa3
18.	ba3	Rfe8
19.	Kd2	Bc6
20.	Bc4	Bg2
21.	Re1	Re1
22.	Ke1	Kg7
23.	Rd7	Rb1 + Rb7
24. 25.	Kd2 Rb7	Bb7
26. 26.	Ke3	Kf6
27.	Kd4	g5
28.	Bd5	Bc8
29.	c4	Ke7
30.	Kc5	f6
31.	Kc6	g4
32.	Kc7	Bd7
33.	c5	Bf5
34. 35.	c6 Kb8	h5
36.	Bg2	Kd6 h4
37.	c7	Be6
38.	Bb7	f5
39.	Bc8	g3
40.	fg3	hg3
41.	hg3	Bc4
42.	Bf5	Ba6
43.	c8 (Q)	Bc8
44.	Bc8	Resigns

A game which demonstrates two typical weaknesses of machine chess play:

- the computer does not understand the idea of initiative and attack;
- endgame concepts, even

those that are relatively simple for a human player, are not comprehensible to the machine.

Prestige plays a book pawn sacrifice in which Black's material minus is compensated for by the lead in development and the open lines available to its pieces. In the game Black seizes the advantage leading up to crucial position reached after White's 16.Rd4. But then the machine makes an error in an immediate grab of one of its sacrificed pawns, 16... Qa2, and then after 17. Qa3 it exchanges Queens, eliminating the posibility of further pressure on White's exposed King. Much better is 16...Rfe8, leading to the following possibilities:

A) 17. Qb4 Qa with a wining attack for Black:

B) 17. Qa3 Re1+; 18. Rd1 Qg5+ winning:

C) 17. Qd6 Rbd8 winning;

D) 17. Qf6 (or 17.Qh4) Re1+; 18. Rd1 Rd1+; 19. Kd1 Qa2, and although White is still a pawn up it is doubtful that he will be able to organize his position in any way that would avoid the full fury of Black's pieces.

Having missed its chance for a win in the middle-game, the Prestige proceeds to misplay the drawable endgame. (after White gives back the pawn to complete his development). 23... Rb1 is a useless check driving the King toward the center, where it wants to go anyway. Later, Black throws away the game by not blockading White's passed c-pawn, and by not advancing his pawn majority on the King-side to produce its own passed pawn.

ROUND 7 White: L. Johansson, 1757 Black: Fidelity Prestige

1. 2.	d4 c3	Nf6 g6
3.	Bg5	Bg7
4.	Nd2	0-0
5.	e4	h6
6.	Bh4	g 5
7.	Bg3	d5
8.	e5	Ne4
9.	Nf3	f5
10.	ef6 e.p.	ef6
11.	Bd3	g4
12.	Nh4	f5
13.	f3	Ng3
14.	hg3	Qd6
15.	f4	c 5

16.	Nb3	c4
17.	Nc5	cd3
18.	Nd3	Re8 +
19.	Ne5	Nc6
20.	Ng6	Qg6
21.	Kd2	Ne5
22.	de5	Qb6
23.	Qc2	Qf2 +
24.	Kc1	Qg3
25.	Qd2	Be6
26.	b3	Kh7
27.	Rb1	a 5
28.	b4	ab
29.	Rb4	Ra2
30.	Resigns	

Not a profound game, but an efficient performance by Prestige. In the twilight of his illustrious chess career Emmanuel Lasker was to have sid, "I might be an old man, but if you put your hand in my mouth, I still know how to bite." Similarly in this game the Prestige, if It had the power of speech, could say, "I might not be very smart and the subtleties of positional play might escape me, but if you hang your pieces I know how to take them."

The game Is decided by two piecelosing blunders by White: 16. Nb3 allows a pawn fork, and 20.Ng6 (apparently overlooking that the Knight on e5 is pinned) drops another piece. White's weak play fails to make an Issue out of Black's early loosening of the King position. If White was a stronger player, It might have been otherwise.

ROUND 8 White: Fidelity Prestige Black: K. Smith, 1883

1.	e4	e5
2.	Nc3	Nc6
3.	Bc4	Nf6
4.	d3	Bb4
5.	Bg5	h6
6.	Bf6	Qf6
7.	Ne2	Na5
8.	0-0	c 6
9.	a 3	Bc3
10.	Nc3	0-0
11.	Ba2	b 5
12.	Qd2	Nb7
13.	f4	ef4
14.	Qf4	Qf4
15.	Rf4	d6
16.	Raf1	Be6
17.	d4	Ba2
18.	Na2	Rae8
19.	Nc3	a 6

20.	d5	<u>c</u> 5 _
21.	Kh1	Re7
22.	Kg1	Rfe8
23.	Rf3	f6
24.	Rf4	b4
25.	ab4	cb4
26.	Na2	a5
27.	c3	b3
28. 29.	Nc1 c4	Nc5
29. 30.	g3	Re4 Rf4
31.	Rf4	Re1 +
32.	Rf1	Re1
33.	Rf4	a4
34.	Re4	Ne4
35.	Nd3	Kf7
36.	Kg2	Ke7
37.	Kg1	Kd7
38.	Kg2	Kc7
39.	Kg1	Kb6
40.	Kg2	Nd2
41.	c5+	dc5
42.	d6	c4
43.	Nc5	a 3
44.	ba3	с3
45.	Na4 +	Kc6
46.	Nc3	b2
47.	a4	b1(Q)
48.	Nb1	Nb1
49 .	Kf3	Kd6
50.	Kf4	g6
51. 52.	h4	Nc3
52. 53.	a5 Ke4	Nd5 +
53. 54.	Kd4	f5 + g5
55.	hg5	go hg5
56.	Kc4	f4
57.	gf4	gf4
58.	Kd3	Kc6
59.	Ke4	Kb5
60.	Resigns.	1100
50.	. iooigiio.	

A couple of positional misjudgements ruined the Prestige in this game. Taking advantage of its opponent's opening inaccuracies, the machine entered the middle game with an advantage and the prospects of an attack on Black's King. But, then the Prestige inexplicably played 14. Qf4, allowing the exchange of Queens, instead of the (humanly) much more natural 14. Rf4.

The resulting endgame was equal, even though the computer enjoyed a slight space advantage. But, then it committed another positional horror -20.d5. By this single stroke it injured its position in four respects: a) the e5-square was weakened: b) Black's Queen-side pawns were allowed to push on agressively; c) the White Knight could not make use of the d5-square; and d) the e4-pawn was weakened.

It was not long before the e4-pawn fell. and with it the game was gone. But the Prestige, bent on self-flagelation, extended the trauma before resigning after Black's 59th move.

ROUND 9

White: Tom Tingblad, 1752 Black: Fidelity Prestige

1.	e4	e6
2.	d4	d 5
3.	Nc3	Bb4
4.	e 5	c5
5.	a3	Bc3
6.	bc3	Ne7
7.	Nf3	Nd7
8.	h4	f6
9.	h5	0-0
10.	Nh4	fe5
11.	Bd3	cd4
12.	Bh7 +	Kh7
13.	h6	dc3
14.	hg7	Kg7
15.	Qg4+	Kf6
16.	Bg5 +	Kf7
17.	Qh5 +	Kg8
18.	Ng6	Nf6
19.	Bf6	Kf7
20.	Nf8+	Kf6
21.	Qh8+	Kf7
22.	Rh7 +	Ke8
2 3.	Ne6 +	Resign

This game is a bizarre act from the drama of Man vs. Machine. Should White be lauded for his exploitation of the holes in the programmed chips, or should he be censored for the bad chess he displays? Probably praise is merited, because White does win.

The Winawer Variation of the French, set up in this game by Black, is not wellsuited for machine play because it usually portends closed, strategically complex positions — not the machine's forte. Moreover, Prestige falls out of book early and, instead of the normal 7...N(8)c6, plays 7...Nd7 which hinders the development of the rest of Black's Queen-side and lessens his pressure on White's center.

White, apparently tailoring his strategy to the machine's perceived weaknesses, neglects his development in favor of an unwarranted advance by the h-pawn, and then pitches an important central pawn with 10.Nh4.

Prestige is now winning, but then it

neglects to play 11...e4, consolidating its position. Next move White assays the unsound piece sacrifice Bh7+. Now heavily up in material, but greedy for still more, the machine makes the decisive blunder 13...dc3 allowing White to play 14.hg7, stripping the King of all pawn protection and allowing the White Rook to enter the assault on the enemy monarch. White concludes his attack successfully. But, if the Prestige had found the simple (for a human player) move of 13...q6, nothing would have been left of White's unsound attack except for the bad breath of his material minus.

ROUND 10 White: Fidelity Prestige Black: Mike Hali

1. d4 Nf6 2. Nf3 Nc6 d5 Nb4 Nc3 b6 B_b7 5. e4 **a**3 6. Na6 7. e5 Ng4 8. h3 Nh6 9. Bd3 e6 10. 0-0 d6 Bb5 + 11. Ke7 12. de6 de5 Qe2 Nc5 13. 14. Rd1 Qc8 15. Rd7 + Qd7 Bf3 16. ed7 17. Qe5+ Ne6 18. Bh6 f6 19. Qf5 Nd4 20. Re1+ Kf7

Bc4+

21. A game which shows the Prestige computer in the best light. After Black plays 2...Nc6 (possibly in an attempt to throw the machine out of its book), Prestige develops smoothly and establishes a powerful center. Black's next error, 10...d6, instead of 10... Be7, allows the powerful check, 11, Bb5+. which traps the King in the center, a victim for the full fury of the silicon wizard's pieces.

Resigns

Noteworthy is White's 13. Qe2, declining to exchange Queens, so as to continue to have the strongest piece's participation in the attack. Computers have not always made the correct decision in such situation. At the game's conclusion the Black King is executed precisely and efficiently.

ROUND 11

White: Martha Petersen Black: Fidelity Prestige

1. c4 2. Nc3 3. d3 4. Nf3 5. Qc2 6. a3 7. b4 8. Nd4 9. e3 10. Qc3 11. Bb2 12. Be2 13. 0-0 14. ed4 15. Qd2 16. Bf3 17. Bg4 18. Rfe1 19. f3 20. Rad1 21. g4 22. Qf2 23. Re8+ 24. Re1 25. Qe1 26. c5 27. Qe4 28. Qe3 29. \tilde{11} 30. Kg2 31. d4 32. Bc1 33. Kf2 34. Bd2 35. f4 36. Ke3 37. f5 38. Kf4 39. Kf5 40. Kf4 41 Ke3 42. Ke4 43. Be1 44. Bd2 45. h4 46. Be1 47. Bf2 Draw Agreed	e5 Nf64
---	---------

A fairly placid game whose outcome a draw — seems merited by the play. Prestige is the first to commit an inaccuracy: it should play 6...Bc3 rather than the time-wasting 6...Bc5, after which it still has to give up that Bishop for the Knight, but under less-favorable circumstances. White returns the complement by allowing the opening of the e-file with 14.ed4 rather than 14. Qc2 with chances of nursing her two Bishops into a tangible advantage.

At its 18th turn, the Prestige makes a typical computer error: not knowing how to improve its position it makes a meaningless King move, only to move the King back on move 25. Then, White misses her chance to secure an advantage by temporarily excuding the Bishop, misplaced at a4, out of the game by 26.b5 (instead of 26.c5).

After the exchange of Queens, neither side has any serious winning attempts. But, maybe the Prestige should be rewarded by more than the sound of one hand clapping for its performance because computers have misplayed even apparently more simple ones endings.

ROUND 12 White: M. Wangen, 1763 Black: Fidelity Prestige

37. 38. 39. 40. 41. 42. 44. 45. 45. 55. 55. 55. 55. 56. 61.	h4 Bf5 Be6 Bf5 e4 hg52 Rf2 Qe3 Kh3 Qd2 Be6 Kg2 de6 Kg2 Kg1 Kg1 Kg1 Kg1 Kg1 Kg1 Kg1 Kg1 Kg1 Kg1	Re7 Ne5 Qg6 Qh6 g5 Qh1 Ra7 Qg1 + Qb1 Ree7 Qh4 + + Qq4 + + Qg3 + Qg3 + Qh3 Qh8 Qh8 Qh8 Qh8 Qh8 Qh8 Qh8 Qh8 Qh8 Qh8
60.	Rf8 +	Rg8
		•
62. 63.	Qg5+ Resigns	Qg6

A game full of inaccuracies by both sides, but White commits the decisive mistakes, and the Prestige winds up on top. The machine is knocked out of its book early — by White's 4.d4; nevertheless, it achieves a fine position. But then it neglects several opportunities to saddle White with doubled pawns and get rid of its misplaced Bishop by capturing B(b4)c3 until White virtually forces it to make that capture on move 15.

During the game the machine makes several unnecessary King moves and one strange Rook move (44... Ra7) demonstrating that there are times when it just does not know what to do.

White makes his game-losing error 30.Kg3, overlooking the Material-winning Knight fork. But then the machine allows the White Bishops to participate in the game powerfully. The Electronic Materialist is unable to see the key winning idea of an exchange sacrifice until it stumbles into it on move 51 by noticing within its lookahead range that it will harvest enough White pawns to assuage its mourning at the Rook's departure. When Black forces the Queen trade on move 62, White decides that he's seen enough, and declines to play out the hopeless ending.

ROUND 1 White: Sensory 9 Chess Challenger Black: Somner Sorenson, 1971

1.

2.	Nc3	Nc6
3.	Bc4	Nf6
4.	d3	Bb4
5.	Bg5	h6
6.	Bd2	Na5
7.	Bb5	c6
8.	Ba4	b 5
9.	Bb3	Nb3
10.	ab3	0-0
11.	Nf3	Re8
12.	0-0	d6
13.	Be3	Qe7
14.	Qe1	⊪ d5
15.	d4	Ne4
16.	Ne5	Qf6
17.	Ne4	Be1
18.	Nf6 +	gf6
19.	Nc6	Re3
20.	fe3	Bh4
21.	Ne7 +	Kf8
22.	Nd5	Bb7
23.	Nf6	Kg7
24.	Nh5 +	Kg6
25.	Nf4 +	Kg7
26.	с4	Bd8
27.	cb5	Be4
28.	Ra6	Bb6
29.	Raa1	Re8
30.	Nh5+	Kg6
31.	Nf6	Re6
32.	Ne4	Re4
33.	Rf3	Resigns.

ROUND 2 White: Sensory 9 Chess Challenger Black: Pedro Marcal, 2139

		,
1.	e4	c5
2.	Nf3	d6
3.	d4	cd4
4.	Nd4	Nf6
5.	Nc3	g6
6.	f4	Nc6
7.	Nc6	bc6
8.	e5	Ng4
9.	Qf3	Bd7
10.	h3	Nh6
11.	ed6	ed6
12.	Qe4 +	Be7
13.	Bd3	0-0
14.	0-0	Nf5
15.	Qf3	Bf6
16.	Be3	Re8
17.	Bf5	Bf5
18.	Bf2	d5

19.	Rac1	Qa5
20.	g4	Be4
21.	Qg3	Qb4
22.	Ne4	Re4
23.	b3	Qa3
23. 24.		Qa2
	Rce1	
25.	Re4	de4
26.	Qe3	Re8
27.	Qc5	Qa6
28.	Qa7	Qa7
29.	Ba7	e 3
30.	Rb1	Bc3
31.	b4	e2
32.	Bf2	e1(Q)
33.	Be1	Re1
34.	Re1	Be1
35.	Kf1	Bb4
36.	Ke2	f5
37.	Kd3	Kf7
38.	gf5	gf5
39.	c3	Bd6
40.	Ke3	Ke6
41.	c4	Bc7
42.	h4	h5
43.	Resigns.	.10
₹3.	neargina.	

ROUND 3 White: Michael Muff, 1886 Black: Sensory 9 Chess Challenger

ROU	ND 4		8.	d4	Qb6	4.0		2			
	e: Shahin, 1773		9.	Bc6	dc6	16.	N2c3	Nc3	34.	Kf2	a 5
	k: Sensory 9 Che	ss Challenger	10.	dc5	Bc5	17.	bc3	b6	35.	Bf3	ab4
	•	•	11.	c3	Bg4	18.	Bd3	Bb7	36.	ab4	Qa7
1.	d4	d5	12.	b4	Be7	19.	Re1	Rad8	37.	Be4	Qb6
2.	c4	dc4	13.	Be3	Qa6	20.	Ke2	Rd5	38.	Ra1	Bc6
3.	Nc3	e5	14.	a4	Qc4	21.	c4	Rh5	39.	Bc6	Qc6
4.	Nf3	ed4	15.	Qd4	Qd4	22.	h4	Rd8	40.	Ra7	f5
5.	Qd4	Qd4	16.	Nd4	h6	23.	g4	Rh6	41.	Rc7	Qc7
6.	Nd4	a6	17.	a 5	Bd7	24.	h5	f5	42.	dc7	Kc7
7.	a4	Bc5	18.	Re1	0-0	25.	gf5	ef5	43.	Nc2	Kc6
8.	e3	Bd4	19.	Bd2	b6	26.	Ng5	Rh5	44.	Nd4	Kd5
9.	ed4	Nc6	20.	e6	fe6	27.	Be3	Re8	45.	Ke2	Ke4
10.	Nd5	Kd7	21.	ab6	ab6	28.	Kd2	F4	46.	Ne6	Kd5
11.	Bf4	Nd4	22.	Ra8	Ra8	29.	Bf2	Re1	47.	Nd4	g 5
12.	Rd1	Nc2+	23.	Ne6	Ra2	30.	Re1	Rg5	48.	hg5	Ke4
13.	Kd2	Nb4	24.	Bc1	Rc2	31.	Kc3	Ra5	49.	g6	Kd5
14.	Nb4	Ne7	25.	Ng7	Bf6	32.	Kb3	Bd6	50.	g7	Ke4
15.	Bc4	a5	26.	Bh6	Kf7	33.	a4	Nb4	51.	g8(N)	Kd5
16.	Kc2	Ke8	27.	Nh5	Bc3	34.	Be4	Rh5	52.	Nf6 Checkmate.	
17.	Bc7	Bf5 +	28.	Rc1	Rc1	35.	c5	Rh3 +			
18.	Nd3	Rc8	29.	Bc1	Bb4	36.	Kb4	a5 +		ND 8	
19.	Kb3	Rc7	30.	h3	d4	37.	Resign.			e: Sensory 9 Ch	ess Challenger
20.	Ne5	Nc6	31.	Nf4	Bf5				Blac	k: Hoffa, 1781	
21.	Rhe1	Ne5	32.	g4	Bh7		ND 7				
22.	Re5+	Be6	33.	Kf1	d3		e: Sensory 9 Che		1.	c4	Nf6
23.	Be6	fe6 –	34.	Nh5	d2	Blac	k: Hamann, 1732		2.	d4	e6
24.	Re6 +	Re7	35.	Bd2	Bd2				3.	g3	d5
25.	Red6	Rf8	36.	f4	Bd2 +	1.	e4	e6	4.	Bg2	Bb4+
26.	Rd8 +	Kf7	37.	Kf2	b5	2.	d4	d5	5.	Bd2	Bd2
27.	Rf8 +	Kf8	38.	f5	b4	3.	Nc3	Bb4	6.	Nd2	с6
28.	Rd2	Re4	39.	h4	b3	4.	e 5	c5	7.	Nf3	0-0
29.	f3	Rh4	40.	g5	b2	5.	a3	Bc3	8.	0-0	Nd7
30.	g3	Rb4+	41.	g6 +	Kg8	6.	bc3	c4	9.	Qc2	Re8
31.	Ka3	b5	42.	Nf6+	Kh8	7.	Qg4	g6	10.	Ng5	h6
32.	b3	ba4	43.	Nh5	b1(Q)	8.	Be2	Qa5	11.	Nf3	e 5
33.	ba4	Rc4	43. 44.	Ng3	Bf5	9.	Bd2	Ne7	12.	cd5	Nd5
34.	Rd5	Rc3+	45.	Kg2	Bg6	10.	Nf3	Nc6	13.	e4	N4b6
35.	Kb2	Rf3	46.	Kh3	Qg1	11.	0-0	Bd7	14.	Rac1	ed4
36.	Ra5	Rf2+	40. 47.	Resigns.	Qg i	12.	Rfb1	Qc7	15.	Nd4	Ne5
37.	Kb3	Rh2	47.	nesigns.		13.	Bh6	Nf5	16.	N2f3	Nf3 +
38.	Re5	Rd2	POII	ND 6		14.	Qg5	Nh6	17.	Nf3	Bg4
39.	a 5	Rd3+		e: Yoos, 1356		15.	Qh6	0-0-0	18.	Rfe1	Qf6
40.	Kb4	Rg3		k: Sensory 9 Che	see Challenger	16.	Ng5	Rdf8	19.	Qb3	Be6
41.	a6	Rg2	Diac	k. Selisory a Cite	335 Chanenger	17.	Nh7	Be8	20.	Qa3	Nc4
42.	a7	Ra2	1.	e4	c6	18.	Qf8	Rf8	21.	e 5	Qd8
43.	Ra5	Ra5	2.	d4	d5	19.	Nf8	Qa5	22.	Qb4	Nb6
43. 44.	Ka5	Resigns.	3.	f3	e6	20.	Rb4	Nb4	23.	Red1	Qc7
77.	Nao	nesigns.	4.	Be3	de4	21.	cb4	Qb6	24.	Qa5	Qe7
ROU	ND 5		5.	fe4	Qh4 +	22.	с3	Qd8	25.	Rd4	Bd5
Whit	e: Sensory 9 Che	see Challenger	6.	g3	Qe4	23.	Nh7	Qh4	26.	Re1	Nc4
	k: CHAOS, 1820	ss Challenger	7.	Qf3	Qc2	24.	Nf6	Ba4	27.	Qc3	Nb6
Diac	K. CIIACO, IOZO		8.	Qe2	Bb4 +	25.	g3	Qg5	28.	b3	Qa3
1.	e4	c5	9.	Kf2	Qe2+	26.	f4	Qf5	29.	Qc2	Qa5
2.	Nf3	Nc6	9. 10.	Ne2	Nf6	27.	Rc1	Qh3	30.	Qd2	Qd2
3.	Bb5	Nf6	11.	Kf3	Nd5	28.	Bg4	Qh8	31.	Rd2	Rad8
3. 4.	e5	Nd5	12.	Bf2	0-0	29.	Nd5	Bc6	32.	Rd4	Rd7
5.	Nc3	e6	13.	a3	0-0 Bd6	30.	Ne3	b5	33.	Rf4	Rde7
6.	0-0	Be7	13. 14.	as Nd2		31.	d5	Bd7	34.	Rf1	Bf3
7.	Nd5	ed5	14. 15.	Nu2 Ne4	Na6 Bc7	32.	d6	Qd8	35.	Bf3	Re5
٠.	1400	eus	15.	1464	DC1	33.	h4	Qb6	36.	Rd1	Re1 +

						2.	foF	٦٥.
37.	Re1	Re1	39.	D-47	D-F	2. 3.	fe5 ed6	d6
38.	Kg2	Kf8		Rcf7 Rf8 Checkmate.	Re5	3. 4.	Nf3	Bd6
39.	h3	Ke7	40.	nio Checkinate.		4. 5.		h5
40.			ROU	ND 10			e4	Nc6
	Rg4	g6		e: Camero 1736		6.	Bb5	g5
41.	Rd4	Re5		k: Sensory 9 Che	ss Challenger	7.	Bc6	bc6
42.	b4	Nd5	Diao	ii. concery o one	oo onunongo.	8.	d4	g4
43.	b5	Kd6	1.	d4	Nf6	9.	Ne5	Ba6
44.	bc6	bc6	2.	c4	g6	10.		Qf6
45.	Rh4	h5	3.	Nc3	d5	11.		Ne7
46.	Ra4	a5	3. 4.	e3	dc4	12.		Rb8
47.	Kh2	Nb6		Bc4	Nc6	13.		Rg8
48.	Ra3	Nc4	5.			14.		h4
49.	Rc3	Rc5	6.	Qb3	e6	15.		Bb4
50.	Bg2	Ke5	7.	Be2	Bb4	16.	. g3	Qe6
51.	Bf1	Kd4	8.	Bf3	Bc3	17.	h4	f6
52.	Rd3 +	Ke5	9.	Qc3	Bd7	18.	d5	cd5
53.	Rc3	Draw Agreed	10.	d5	ed5	19.	ed5	Nd5
			11.	Bd5	0-0	20.	Nd5	Qc8
ROU	ND 9		12.	Bf3	Re8	21.		Qc7
Whit	e: Leary, 1759		13.	b3	Ne4	22.		Resigns.
	k: Sensory 9 Che	ss Challenger	14.	Be4	Re4			nooigno.
	•		15.	Nf3	Qe7		JND 12	
1.	c4	Nf6	16.	0-0	Rf8	Whi	ite: Sensory 9	Chess Challenger
2.	Nc3	e6	17.	Bb2	f6	Blac	ck: Conway,	1660
3.	e4	c5	18.	Rac8	Be6		•	
4.	e5	Ng8	19.	Nd2	Rg4	1.	b4	Nf6
5.	d4	cd4	20.	f3	Rh4	2.	Nf3	e6
6.	Qd4	Nc6	21.	Ne4	Kg7	3.	Ba3	d5
7.	Qu4 Qe4	Bb4	22.	Nc5	Bc4	4.	e3	Bd6
8.			23.	bc4	Qc5	5.	Be2	Qe7
9.	Nf3	Bc3+	24.	Ba3	Qe5	6.	c3	e5
	bc3	Qa5	25.	Bf8	Kf8	7.	0-0	0-0
10.	Bd2	Nge7	26.	f4	Qc3	8.	d4	e4
11.	Rc1	Qa2	27.	Rc3	f5	9.	Ng5	h6
12.	Bd3	Ng6	28.	g3	Rh5	10.	Nh3	
13.	Ke2	Qa5	29.	Rd1	Ke7	11.	gh3	Bh3
14.	Ra1	Qc7	30.	a3	Ke6	12.	Nd2	Nh7
15.	Bf4	f6	31.	Rcd3	Na5	13.		Nd7
16.	Bg3	Nge5	32.		b6		Qb3	c6
17.	Nd4	d6		Rc1		14.	C4	Qh4
18.	Nb5	Qe7	33.	c5	a6	15.	Bg4	Ndf6
19.	Rhe1	Kf8	34.	cb6	cb6	16.	b5	Ba3
20.	Kf1	a6	35.	a4	h6	17.	Qa3	dc4
21.	f4	f5	36.	Rc7	g5	18.	bc6	bc6
22.	Qe3	Ng5	37.	Ra7	Nc4	19.	Be2	Ng5
2 3.	Qb6	Qf6	38.	Ra6	Rh3	20.	Rb1	Nh3 +
24.	Nd6	Qc3	39.	Kg2	Rh5	21.	Kg2	Ng5
25.	Bf5	Ne3+	40.	Ra8	gf4	22.	Nc4	Nf3
26.	Qe3	Qe3	41.	ef4	Nd6	23.	Qd6	Rfd8
27.	Re3	Nd4	42.	Rb8	Nc4	24.	Qg3	Qg3
28.	Be4	Rb8	43.	Re8 +	Kf7	25.	hg3	Ng5
29.	f5	ef5	44.	Rc8	Nb2	26.	Ne5	Rdc8
30.	Nf5	Nf5	45.	Rd4	Ke7	27.	Ba6	Rc7
31.	Bf5	Ra8	46.	Rc7 +	Ke6	28.	Bb7	Rb8
32.	Ra5	Kf7	47.	Rc6 +	Resigns.	29.	Bc6	Rb6
33.	Be4	Be6			•	30.	Rb6	ab6
34.	Rf3 +	Kg8	ROU	IND 11		31.	Rb1	Ra7
34. 35.		•		te: Sensory 9 Cho	ess Challenger	32.	a4	Kf8
	Rc5	b6		k: Petermeier, 13		33.	Rb6	Ne6
36.	Rc7	Re8	2.20			34.	Kf1	Ke7
37.	Be5	Bc4 +	1.	F4	e5	35.	a5	Nd8
38.	Kg1	Bf7		. 7				1400

36.	a 6	Kd6
37.	Be4 +	Kc7
38.	Rb7 +	Nb7
39.	Bb7	Ne8
40.	Nf7	Kb6
41.	Nd8	Nd6
42.	Kg2	Kc7
43.	Nc6	Rb7
44.	ab7	Nb7
45.	d5	Kd6
46.	e4	Nc5
47.	Kf3	Nd3
48.	Ke3	Nc5
49.	Nd4	Ke5
50.	f4 +	Kf6
51.	e5+	Ke7
52.	Nf5+	Kf7
53.	e6+	Ne6
54.	de6 +	Ke6
55.	Ng7 +	Kf6
56.	Nh5 +	Kg6
57.	g4	Resigns.

The Bratko-Kopec **Experiment Updated:**

A test for comparison of human and computer performance in chess.*

By Drs. Danny Kopec, Enrique Irazoqui and Ivan Bratko

Abstract

The work of psychologist/chess master Adrian de Groot gave evidence to the point of view that chess masters employ their ability to associate and recall from a large pattern-store of configurations rather than perform prodigious calculations. Independent estimates by Simon and Gilmartin (1973) and Nievergelt (1977) suggest that the size of this pattern-store is somewhere between 10,000 and 100,000. Recently the best computer programs have demonstrated the ability to hold their own against grandmasters in blitz play and in tournament play have been able to obtain ratings just below the master level. The foundation of their success is the ability to exhaustively search 6 to 7 or more ply which makes them superior in tactical positions to humans of the same rating.

We have designed this experiment in order to obtain some quantitative support for the above well known propositions. The space of chess positions which arise in competitive play may be viewed as either positional or tactical in nature. Our experimental positions have been chosen with the point of view that a certain type of positional move (called a lever) can play an important role in the strong player's ability to find the best move in a position. Thus our hypothesis

Strong computer programs will score well on tactical problems (better than humans of the same rating) but will score rather more poorly on the selected positional problems, unless the best "positional" move also leads to material gain within their search limits or distinctly improves mobility more than any other move in the posi-

Assuming that there are essentially four levels of chessplayer: novice (1600), intermediate (1600-1999), strong (2000-2399) and very strong (2400 and above), a correlate result of the quantitative data is that the experiment is a good method for predicting or assessing a human player's rating within normal standard deviations.

* The original, not updated, version of this paper, co-authored by Kopec and Bratko, appears in "Advances in Computer Chess 3". (editor M.R.B. Clarke) Pergamon Press, Oxford, 1982 and as M.I.P.R. 133 reporting work done at the Machine Intelligence Research Unit. University of Edinburgh, Scotland.

I. Introduction

(A) Computer and Human Chess

It has been our long held view that in artificial intelligence work, particularly with regard to computer chess, more attention should be paid to the way humans do things before attempting to implement the computational process involved. De Groot's (1965) work with chess masters established the fact that they build small lookahead trees. generally storing about 30 positions in their lookahead memory, with an upper bound on the order of 100 positions. This leads to the conclusion that a chess master's unique talent does not lie in the ability to perform computer-like feats of memory or calculation, but in the ability to conceptualize a position's features.

By contrast, today's top computer chess programs, which are based on the Turing-Shannon paradigm (Turning, 1953; Shannon, 1950), can develop lookahead trees consisting of millions of positions as in the case of large mainframe computers such as CHESS 4.9 and BELLE. Today we are on the threshold of master level play by computer chess programs mainly due to refinements in the efficient implementation of the Turning-Shannon paradigm and developments in semi-conductor technology.

However, these refinements have resulted mainly in the growth of deeper and more efficient lookahead trees. rather than in improved methods of knowledge representation, whereby the chess master's conceptualizations have been understood. Alfred Binet 1894) investigated the ability of chess masters to play simultaneous blindfold chess. He concluded that this feat was founded by "la memoire" (in the sense of concept formation), "l'erudition", the use of accumulated chess knowledge to form meaningful descriptions of board positions, and "l'imagination", the ability to reconstruct mentally a position from a description. We agree with and emphasize Michie's (1980) conclusion:

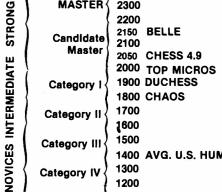
"Although machine play is now impressive, little progress has been made in mechanizing l'erudition and l'imagination. the next few years' hardware development may alone suffice to force the door to Masterlevel play. However, for scientific study of cognitive science and cognitive engineering. more ambitious goals of performance, or of computational economy must be set."

(B) Objectives of the Work and Progress of Computer Chess Programs.

The Elo chess rating system (Elo, 1978) is now sufficiently established to be a reasonably reliable method of judging a chessplayer's (human or machine) strength. It is founded on the ability to predict a player's success ratio in a given set of games or tournament(s) based on his previous performances. Figure 1 gives the various divisions of the rating system and the positions of the most recent World Champions and top computer programs on it. Though computer chess programs (both mainframe and micros) now command a respectable position on the E10 scale, this has not been achieved by the knowledge engineering approach suggested by researchers and chess masters working in the field (Michie, 1973; Berliner, 1973; Kopec, 1977; Bratko, Kopec, Michie, 1978; Pitrat, 1980; Michie, 1980; Michie, 1980a). Most noticable has been the progress of microcomputer programs, a number of which are now playing at a higher rating level than the top main-

frames of 10 years ago. Even since the time our original data was collected in early 1981 the ratings of top micros have improved by three to four hundred points. Nonetheless, this has had little to do with improved methods of concept formation, knowledge representation. modularization, learning, or the formation of long-range goals or plans, particularly with regard to endgame play, as studied in the works cited above.

THE ELO RATING SYSTEM 2800 **VERY STRONG** 2780 Bobby Fischer 2720 Anatoly Karpov (World Champion) 2700 2600 2500 2450 GRANDMASTER Senior Master 2400 2350 International Master



2300

2200

MASTER

1700 Category II 1600 1500 Category III

1400 AVG. U.S. HUMAN 1300 Category IV

1200 1100 Category V 1000

Fig. 1. The Elo Rating System with the 4 major categories used for purposes of this experiment on the left, U.S. categories in the middle, and some key points where humans and certain computer chess programs fall on it.

The above generally accepted view that the strength of computer chess programs lies in their ability to calculate and not in the use of chess knowledge has not as yet been supported by quantitative analysis. This paper aims at such an analysis. We devised an experiment where subjects had to choose a move in positions of two fundamentally different types:

- (1) tactical moves in which the lack of chess knowledge can be compensated by calculation.
- (2) positional moves where the lack of knowledge cannot be compensated.

It is also generally accepted that chess moves fall into either of two overall categories: tactical or positional. Tactical moves are those which involve the interaction (possible capture) of White and Black forces and include:

- (1) checkmate or gain of material and/or
- (2) a distinct improvement in terms of positional ends (i.e. mobility) and/or
- (3) the defence to some immediate threats.

Positional moves are those which do not involve interaction of the opposing White and Black forces, but result in improvements in such tangible notions as mobility, centralization, acquisition of new terrain (space or squares), regroupment of forces, etc.

(C) Related Work

Four further works provide the spirit and background of our present research. (1) E.T.O Slater (1950) recorded the differences in mobility between winners and losers of 78 arbitrarily selected master games which ended in a decisive result on or before the 40th move (see Michie, 1980). This helped to establish the importance of mobility which is still employed as a significant factor in the evaluation function of most modern computer chess programs. (2) Tan's (1977) work, pointed towards the complexities of pawn endings and attempted to develop a logical framework which might uncover their secrets. The vocabulary for Tan's work is that which is defined in (3) Kmoch's Pawn Power (1959). One term in particular provides the motivation behind our present experiment: LEVERS. Kmoch's simple. overall definition is (p16): "The situation in which two opposing pawns can capture each other constitutes an element of pawn play which we shall call the lever, ..." Our definition includes a few additions, though the overall concept is unaltered. A pawn move which:

- (1) Offers to trade itself
- (2) Leads to an ultimate improvement of the pawn structure of the side playing it and/or
- (3) Damages the opponent's pawn structure.

This is founded on the notion that any pawn structure can be reliably defined and measured in terms of positive and negative points. An example of a lever which results in the improvement of the pawn structure of the side playing it is given in Fig 2.1, while a lever of the type which damages the opponent's pawn structure is given in Fig 2.2.

Levers may be considered as a subclass of positional moves, though they may also be considered to border on the realm of tactical chess in the sense that they do involve the interaction of opposing forces and may employ a temporary or long-term pawn sacrifice.

More than two centuries ago Philidor (1749) said: "Les pions sont l'ame du ieu." (Pawns are the soul of chess) They are even more: they provide the "skeleton" (overall concept, outline) of a position. (4) An effort to establish their role in the strong player's ability to recall a position was earlier work by Bratko and Tancig (1976), where very strong players were tested on their ability to recall a set of stimulus positions from short term memory. They found that the pawns were recalled much more consistently than other pieces, particularly when organized into some wellknown patterms. They also found that the ability to recall the positions of pieces was directly related to how well they fit into these pawn configurations or patterns (See also Chase and Simon, 1973). This is the foundation of our decision to use lever moves for the choice of those experimental positions in which the correct move is a positional one.

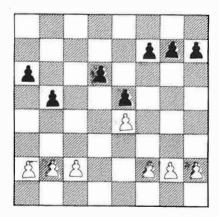


Fig. 2.1
A classic Sicilian Defence pawn structure whereby if Black can safely play the lever ...d5 he gets rid of a weakness and improves his pawn structure.

II. The Bratko-Kopec Experiment (A) Pilot Experiment

Our original experiment in 1977 consisted of 25 stimulus positions, 20 of which were 'lever' positions from Pawn Power, with 5 tactical positions included as controls. The positions were stored in a data file on the DEC10 at Edinburgh's Regional Computing Centre, and then flashed for 11/2 minutes each on a hardwired chess TV display unit. Subjects were than allowed 30 seconds to write down their choice of 'Best Move(s)' and 'Candidate's moves' for each position. Only human chessplayer subjects in Edinburgh were tested. Our general finding was that scores correlated closely with ratings, and that with some experience we were soon able to predict subjects' scores a priori, based on their ratings. Where scores were higher than would be expected from subjects' ratings, we have found that their subsequent substantial improvement in rating had been effectively foreshadowed. To draw attention to 'biased' subjects we asked each subject to note after the experiment whether he had read Pawn Power. However the number of control tactical positions (5) proved insufficient to draw any conlcusions on the relative roles played by tactics and levers according to a player's rating. It was also difficult to standardize the scoring of can-

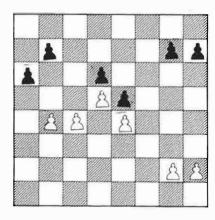


Fig. 2.2 A position where a lever of the second type, 1.c5 damages Black's d6-e5 minichain and forms a duo.

didate moves by our experimental design. These findings enabled us to conclude that in further experimentation it would be necessary and advantageous to:

- increase the number of tactical positions.
- substitute the notion of 'candidate moves' with '2nd Choice', '3rd Choice', '4th Choice'.
- make the experiment more portable.

(B) The Experimental Design

Of the 20 original lever positions (L) from Pawn Power, 10 were retained with two additional ones selected from The Best Move (Hort & Jansa, 1980) and 9 additional tactical positions (T) were chosen from Informator 18 (Matanovic. 1975) and Modern Chess Tactics (Pachman, 1973), with 3 of the original 5 being retained. Thus 24 positions (12T and 12L) are presented on the separate pages of a booklet, with the side to move indicated alongside each diagrammed position as well as on a standardized Answer Sheet, (see end of article) Subjects are given a total of 2 minutes for each position to select their preferred move(s) and to write down up to 4 choices in order of preference on the Answer Sheet provided. Thus the experiment is portable and can be administered (e.g. by mail) to any chessplayer, (human or machine) in the world.

(C) Results

1. Human Subjects

Thus far we have tested 35 human chess-player subjects and 17 computer chess-playing programs. Scoring is done by 1/N where N goes from one to four as the choice-preference of the correct move(s). So that if the "Preferred Move" selected by a subject for a given test position is the correct move, one full point credit is given; if the subject's second choice is the correct move, then 1/2 point credit is given; third choice correct give 1/3 point credit, and fourth choice gives 1/4. The ratings, scores, and breakdown of scores for human subjects are given in Table 1. The composition of subjects' scores within 6 rating zones according to their dependence on T and L is given by the following table.

Table 1 Data for 35 human subjects where T is Tactics (Max 12), L is Levers (Max 12), and S stands for Score.

			13		
NAME	RATING	SCORE	Т	L	12(T·L)/S
M. Pinsky (J)	1000	1.25	o	1.25	-12.0
A. Mullen	1310	1.50	.5	1.00	- 4.0
A. McIntosh (J)	1000	1.50	1.0	0.50	+ 4.0
J. Sheddon	1000	1.50	1.5	0.00	+ 12.0
T. Combe	1000	1.50	0.5	1.00	- 4.0
B. Gordon	1000	2.50	1.5	1.00	+ 2.4
A. Mountford	1685	2.50	0.5	2.00	- 7.2
C. Gordon	1000	3.00	2.0	1.00	+ 4.0
L. Stirling (∼)	1400	5.00	2.0	3.00	+ 2.4
J. Burnham	1940	7.50	4.0	3.50	+ 0.8
R. Granston(*)	1600	8.58	3.08	5.50	-3.38
F. Clough	1855	8.58	4.0	4.58	+ 0.82
E. Penn	1600	9.00	4.0	5.00	-1.3
B. Eley	1760	9.00	5.0	4.00	+ 1.33
P. Condie (S)	1820	9.00	5.0	4.00	+ 1.3
J. Austin	1945	10.00	4.0	6.00	- 2.4
G. Chandler	1950	10.25	7.0	3.25	+ 4.4
R. Baxter	2115	11.00	4.0	7.00	- 3.3
E. Allan	1895	11.50	7.0	4.50	+ 2.6
B. Smerdon	2045	11.50	5.0	6.50	- 1.6
D. Smith	2060	11.75	6.5	5.25	+ 1.3
S. Reuben	2170	12.00	6.5	5.50	+ 1.0
S. Marjan (~)	2200	13.33	8.5	4.83	+ 3.3
L. Melvin (*)	1995	13.50	7.0	6.50	+ 0.4
J. Henley	2015	14.50	9.0	5.50	+ 2.9
K. Slavko (~)	2250	14.50	7.0	7.50	- 0.4
S. Steiner	2325	14.50	6.0	8.50	- 2.1
D. Bryson	2215	14.83	6.5	8.33	- 1.9
C. Morrison	2115	15.33	9.0	6.33	+ 2.6
G. Morrison	2270	16.00	8.0	8.00	0.0
A. Reid	2255	17.00	9.0	8.00	+ 0.7
N. Ivell	2300	18.00	9.0	9.00	0.0
N. Davies	2360	18.92	8.5	10.42	- 1.1
C. Pritchett (I)	2400	20.33	11.0	9.33	+ 1.0
I. Jelen (I)	2435	20.50	10.0	10.50	- 0.3

Key:

- Rating will change by more than 100 points
- Rating is approximate
- Was Pilot Experiment subject S
- Junior, under 21
- International Master

It is worth noting that in the case of very high scoring subjects the (T-L)/S ration has its bounds. For example if a subject scores 18, the maximum for T L is T = 12, L = 6, so that 12(T-L)/S gives 4. This means that simply due to the experimental design in that the maximum of both T and L is 12, high scores (i.e. 18) are comprised of general success with regard to both T and L. Therefore a greater difference between T and L in scores near 12 is most significant, as is the case with the group rated 2000-2199. However a more appropriate measure would be to use the ratio (T-L)/S if S is less than or equal to 12 and to use the ratio (T-L)/(24-S) if S is greater than 12. A

Avg. T

1.13

3.33

5.43

6.67

7.81

10.50

5.23

Avg. L

1.05

4.13

4.62

4.84

8.07

9.95

5.09

Table 2.

1000-1599

1600-1799

1800-1999

2000-2199

2200-2399

Tot. Avg.

2400 +

Table 3

Rating Range

Avg. 12(T-L) ⊬ or .43 -1.32.97 1.73 6 0.20 8 0.32 2 0.39 Tot. 35

rs stated

v could

3. we

further 20 sample subjects have not been included here due to various unrealiability factors such as age, rating, etc.

2. Computer Subjects

Though our data for computer programs as compared to humans is somewhat limited, Table 3 below indicates that once scores get above 5, there is a definite and significant, strong trend for T> L. The two cases where L>T (3 to 2) can be attributed to the fact that the scores are low and possibly to the nature of at least one of the correct moves involved. This will be discussed in the next section.

COMPUTER SUBJECTS								
Program	Rating	Score	T	L	12(kT-L)/S			
1. Chess Challenger '10'	1000	1	1	0	+ 12.00			
2. Chess Challenger '7'	1150()	5	2	3	- 2.40			
Sensory Chess Challenger	1150()	5	3	2	+ 2.40			
4. Sargon 2.5	1484	5	2	3	- 2.40			
5. AWIT	1500	6.25	5	1.25	+ 7.20			
6. OSTRICH81	1450()	6	4	2	+ 4.00			
7. CHAOS	1820	6	5	1	+ 8.00			
8. Mephisto II A	1850()	6.50	4	2.50	+ 2.77			
Chess Champion Mk V	1700()	6.83	5	1.83	+ 5.56			
10. Elite	1880()	9.00	6	3.00	+ 4.00			
11. Morphy Encore	1600()	9.33	6	3.33	+ 3.43			
12.Champion Sensory 9	1770(*)	9.50	5.5	4.00	+ 1.89			
13.Prestige	1980()	11.00	6.16	4.83	+ 1.45			
14.BCP	1685()	13	10	3	+ 6.46			
15.CRAY BLITZ	2100()	13.33	7.33	6	+ 6.60			
16. DUCHESS	1850	16.50	10.5	6	+ 4.38			
17. BELLE	2150	18.25	11	7.25	+ 2.46			

Key: (*) Provisional Rating () Rating is an estimate

Programs running off mainframe computers have names entirely in upper case letters. Others are stand-alone microcomputer program.

The ratings and scores indicated are based on data gathered since the early months of 1981.

Discussion of Positions

Table 4 is the "Master Sheet" for our experiment, giving the correct move(s) in each position and their sources. We refer to positions by their move number followed by the side to move in "()". 1(B) requires little explanation you've seen this theme of a Q sacrifice followed by double-discovered-check then you will find it. 2(W) is an example of a very characteristic lever: "the sweeper-sealer twist" (Kmoch, 1959). It involves a longterm pawn sacrifice in which the principle variation (as play continued) is 1.d5 cd 2.e5 R/6d7 (Not 2. ...d4? 3. exd6 dxc3 4.dxe7 + winning a piece) 3.Nd4 after which White has: 1) gained full control of the opened c-file. 2) sealed off Black's half-open d-file 3) gained a tremendous central post for his N. 4) weakened Black's pawns into 3 groups and 5) gained a K-side majority of pawns. 3(B) exemplifies the classic lever f5 around which Black has organized nearly all his forces. Without knowing about levers, computer programs are able to select this move because it improves mobility, gains space, and attacks the centre, 4(W) is an example of the "Knight attack", 1.e6!. Now if ...cxd4 2.Qb5+ Bd7 3.Qxd5 (or exf7+) wins. It is arguable that 1.e6 is a very tactical move, but the game continuation 1, ... fxe6 2.Qh5+ Kd7 (2. ...g6 3.Qe5 Rg8 4.Nxe6 wins) 3.Nf3 indicates a P-sacrifice for positional/quasi tactical ends, whereby White mated on move 20! 5(W) calls for the thematic tactical stroke 1.Nd5. If 1. ...exd5 2.Bxd5 + wins; or on 1. ...Nxd5 2.Rxf8+ Bxf8 (If 2. ...Kxf8 3.Bxd5 leads to a promising attack e.g.3...exd5 4.Rf1 + Bf6 5.e5!! de 6.Qxd5 etc.) 3.Bxd5 Rb8 4.Qa7! wins. Sixteen-year-old Mark Condie contributed the lever 1.a4 which must also be considered as a correct move in the position. In 6(W) 1.g6, again a temporary endgame P-sacrifice, is necessary immediately in view of Black's threat to equalize with ... q6 ... Kf8-e8. Some computer programs may find 1.g6 because their search sees that White will recover more than the sacrificed P and they want to keep their Rook on the 7th rank. 7(W) is one of the harder positions where many humans overlook the main tactical theme 1.Nf6! gxf6 2.exf6 and White either wins the N on e7 or forks with f7. Many subjects suggesst 1.Bb4, a good intermediary move, but we have no

way of knowing that Nf6 is the intended follow-up since it is not amongst their further choices. In 8(W) Black suffers from classic "melanopenia", a weakness on the Black squares (Kmoch); hence 1.f5 forces access for White's N to f4 sooner or later. 9(W): 1.f5. Many subjects chose 1.Bb5, but the main theme is to follow the lever with 2.Bd3 then Ne2-f4 etc. English translation (Hort & Jansa, 1980) puts a Black pawn on b6. In 10(B) 1. ...Ne5 removes the blockader and leads to the opening of the g1-a7 diagonal. If 2.Rxd4 Nea4! 3.fxa4 Nxa4! wins; or if the R retreats then 2. ... Neg4! wins with the same idea. Interestingly, many programs chose 1, ...Qc5 which is a good move. though clearly not the best, 11(W) offers a straightforward space-gaining lever. 1.f4, though experienced humans know that if Black's pieces (especially N's) had easy access to e5 then it would be a poor move due to the resulting backwardness of White's e-pawn, 12(B) is a defensive tactical position. The only one of its kind in the experiment and one of the easiest. White has two threats and B has only one move which defends against both: 1. ...Bf5. In 13(W) Black suffers from "leucopenia" (weakness on the White squares). The sophisticated lever, 1.b4 enables White to advance his central pawns after bxc5 and Qc4. If Black plays 1. ...cxb4 White recaptures 2.Bxb4 and soon Black's weak doubled front d-pawn will fall. 14(W) is straightforward tactics; 1.Qd2 or 1.Qe1 wins heavy material. 15(W) is from a Fischer game which many subjects, particularly younger ones, recognized. After 1.Qxg7 + Qxg7 2. Rxf6 Qxg3 3.hxg3 later followed by q4-q5-q6. Fischer managed to trade off his extra doubled P to remain a P up. 16(W) is an example of a tactical position whereby after 1.Ne4! White is guaranteed at least positional gains with 2.Nd6+ to follow; i.e. if 1. ...dxe4 2.Bxf7 + Kxf7 3.Qxd8 hxg5, though Black obtains 3 pieces for his Q, his exposed K. P-deficit, and lack of piece coordination mean that he does not have sufficient compensation. However after 1. ...Be6 (as suggested in BCP's search) 2.Nd6+ etc., White only obtains a big positional plus, 17(B) calls for 1, ...h5 with the idea of ...hg, Nh7 and Ng5 to follow. If 2.g5 Nh7 3.h4 f6!. Alekhine played 1. ... Ne8 (a move suggested by many subjects) in this position and did not obtain good play, 18(B) is from a

Fischer game which exemplifies the fact that the achiervement of the two bishops vs. bishop and knight in a semi-open position is at the highest level tantamount to material gain. Very few humans found 1. ... Nb3, most stronger ones suggesting 1, ...Qb6 or 1, ...Be6, After 1, ...Nb3 2.Bxb3 Qb6 + White relinquishes the two bishop advantage to Black and is left weakened on the light squares. The programs BELLE and DUCHESS found 1. ...Nb3. 19(B) is the "fork trick" in action. After 1. ...Rxe4 2.Rxe4 d5 3.Qxa6 dxe4 4.Be3 Qg4! Keres managed to transfer his central advantage to a winning K-side attack. 20(W) suggests the straightforward lever 1.q4 with the intention to follow 1. ...fg with 2.Qxg4 and f5, strking at the base of Black's chain and exposing his disorganized position. In 21(W) 1.Nh6 wins the exchange in all variations, 22(B) is the hardest position of the entire set, at least for humans, Perhaps the fact that only one human subject. I.M. Craig Pritchett found the best move. as did the programs BCP, DUCHESS, and BELLE is most significant to the experiment. Humans suggest reasonable and/or intersting moves such as Rfd8, Nc5, d5!?, Ne5!? and Nh5, which often come into consideration in similar positions, but the most unusual combination starting with 1. ... Bxe4 followed by 2. ...Qxc4 is the key. It should be noted that depth of search is not the problem for humans in finding this combination; but rather more likely is its individuality and the fact that many good moves seem in the offing. 23(B) is also a hard position in the sense that the "normal" move 1. ... Bf5 is confronted with the very interesting 2.q4!? which most people (and machines) fail to consider adequately. 1. ...f6 is an indisputable, solid lever which meets the threat 1.f5. Finally in 24(W) 1.f4 is the indicated lever since White's superior pieces make it easier for him to maintain the tension in the center.

Discussion of Experiment and Results

A number of human subjects made interesting comments/criticisms after participating in the experiment. Some suggested that they would have fared much better had they been given an initial few "training" positions to get some idea of what was being asked for in the experiment. However this would give us no fair method of comparing human results

with computer results. Others stated that in a number of positions they could guess the "characteristic" move we were after: however, in two minutes or under tournament time constraints (2 minutes per move), they could not calculate its consequences and would most probably not play the indicated move. Quite a few subjects recognized the Fischer position 15(W), where he played Qxg7 + against Mecking in the 1970 Palma de Mallorca Interzonal. Nevertheless we do not feel that this or other positions which may have been recognized invalidates their inclusion in the experiment. A chess player's experience or education can be used as a measure of his ability. We accept that a few positions in the experiment are not ideal, and that a few are even controversial as to what the best move is, but this will not significantly alter a human or machine subject's overall score within some standard deviation.

It is interesting to note that the computer programs with known tendencies towards play like humans, namely CHAOS, Mephisto IIA, and Chess Champion MKV, all scored relatively poorly on the test. Their T to L ratios are still high, in line with the performance of other programs. This means that their superior "positional sense" has not been sufficient to find the required lever moves in the experiment.

There is a certain positional sense for a characteristic move such as a lever which most human players do not acquire until they obtain the experience which is reflected in master level play. The lack of experience, knowledge about, and understanding of pawn structures, both in computer programs and humans of Category I and II level is indicated by their performance on the test.

They share a tendency to occasionally play "disjointed", short-term moves which overlook the essential features or requirements of a position. A lever can lead to a long-term positional advantage (such as superior pawn structure or outposts for pieces) which may ultimately lead to the gain of material. Themes such as "bad bishops", "good knights", and "destroying the communication channels" particularly in endgames, are generally overlooked by less than master strength players of either machine or human origin.

Clearly Candidate Master level

humans and machines (also of Category I for the latter) are adept at finding forcing tactical variations. Our hypothesis as given in Figure 2 indicates this trend, though the data for Category I humans participating in the experiment is rather sparse and does not support this view. Our data does indicate that as humans encroach on the 2200 threshold their ability to find lever moves does

necessarily improve, even to the point that for ratings up to 2400 L may predominate.

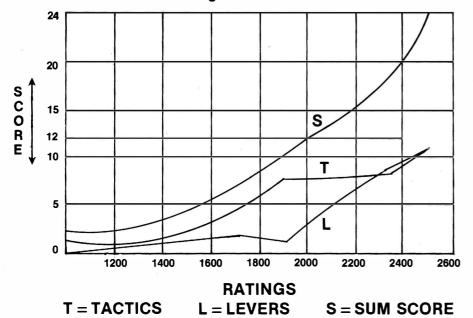
Finally this leads to the natural question:

"Can we imagine a World Champion chess player of machine origin with no positional sense of the normal, classical mold?"

Only time will tell.

Fig. 2

Hypothesis for effects of Tactics and Levers on Sum Score vs Rating for Humans



Note: Maximum of S is 24

Maximum for T and L is 12 each.

Conclusions

The design of the experiment facilitates the quantitative study of differences in the ways that human players and most tournament programs play chess. The results confirmed those differences, which were suspected prior to the experiment. It is hoped that the experiment can become a standard test for the characteristics of chess programs in enabling the establishment of their "tactic vs. lever" profile.

A few comments should be made about the disadvantages of the experi-

ment. The first is based on the observation that some programs scored surprisingly well, outscoring strong human players who in our judgment would be able to beat them under standard tournament conditions. One explanation for this is that the test conditions were more favorable to machines than to humans. During actual games human players tend to nonuniformly allocate their total time to individual moves. Thus a chess master would typically spend 10 or 20 minutes or more in a critical position for finding a key move or a correct plan, and them play the next few moves almost in-

stantly. On the contrary,most programs must more or less repeat the whole analysis after each reply by the opponent. Therefore the programs were probably not as handicapped by the two minute time limit in the experiment.

There is another explanation for why the experiment ranked some of the programs higher than humans of similar tournament strength. The scores in the test were based on the ability to find a correct move in individual, mutually independent positions, and not a correct sequence of moves in a whole game. A program may be able to find correct moves in a sequence of positions of the same game. However, although each of the moves may be correct, in a sequence they may not achieve a desired cumultive effect as they may belong to different plans, each of them winning alone but not if mixed with other. Therefore, a program's individually correct moves may not in an actual game be

as efficient as a human's sequence of moves.

Another weakness of the experiment may be that in some of the positions there is more than one good move. Our measures, S, L, and T were based on the comparison of one correct move with the move(s) proposed by the subjects, and therefore cannot be considered as absolutely reliable. One way of excluding this effect would be to base the interpretation of the results on the mutual similarity of subject's responses instead of the absolute correctness criterion.

Subjects' responses would thus not be matched against correct responses in order to obtain the subject's success/failure pattern along the axis of 24 test positions. Instead, in order to find a similarity measure between two players, their responses would be compared directly, before matching them against the correct responses.

REFERENCES

BERLINER, H. (1973) Some necessary conditions for a master chess program. Proceedings of the Third International Joint Conference on Artificial Intelligence, pp. 77–85.

BINET, A. (1894) Psychologie des grands calculateurs et des joueurs d'echecs. Paris. Hachette.

BRATKO, I., KOPEC, D., & MICHIE, D. (1978) Pattern-based representation of chess end-game knowledge, *The Computer Journal*, Vol. 21, No. 2 pp. 149-153. BRATKO, I. & TANCIG, P. & TANCIG, S (1976) Some new aspects of chess board reconstruction experiments *3rd European meeting on Cyb. and Sys. Res.*, Vienna.

CHASE, W.G. & SIMON, H. A. (1973) Perception in chess. Cog. Psych., 4, 55-81.

ELO., A. (1978) The Rating of Chessplayers - Past and Present; Batsford Ltd., London. GROOT, A. DE (1965) Thought and Choice in Chess, (ed. G.W. Baylor). Mouton, The Hague and Paris. (Translation, with additions, of Dutch version of 1946.)

KMOCH, H. (1959) Pawn Power in Chess. New York, David McKay Co.

KOPEC, D. (1977) Recent developments in computer chess. Firbush News (ed. J.E. Michie) Edinburgh: Machine Intelligence Research Unit University of Edinburgh.

HORT, V. & JANSA, V. (1980) The Best Move. New York, RHM Press, (Translation, with additions, of original Russian version of 1976k).

MATANOVIC, A. (1975) Informator No. 18, Belgrade.

MICHIE, D. (1973) The path to championship chess by computer. *Computers and Automation*, Jan., 1973, 7-9, 36.

MICHIE, D. (1980)Chess with computers. *Interdisciplinary Science Reviews*, 5, No. 3, 215–227.

MICHE, D. (1980a) Expert Systems. The Computer Journal, 23, No. 4, 369-76.

NIEVERGELT, J. (1977) Information content of chess positions: implications for chess-specific knowledge of chessplayers. SIGART Newsl. 62, 13-15.
PACHMAN, L. (1973) Modern Chess Tactics. Routledge & Kegan Paul, London. (translated by P.H. Clarke from original Czech version of 1970).

PHILIDOR, A. (1749) L' Analyse. Paris. PITRAT, J. (1980) The behavior of a chess combination program using plans. In Advances in Computer Chess 2, (ed. M.R.B. Clarke) pp. 110–121. Edinburgh: Edinburgh University Press.

SHANNON, C. (1950) Programming a computer for playing chess. *Philos. Mag. 7th Ser.*, 41 256-275

SIMON, H.A. & GILMARTIN, K (1973) A simulation of memory for chess positions. *Cogn. Psychol.*, 5, 29–46.

SLATER, E.T.O. (1950) Statistics for the chess computer and the factor of mobility. In *Proceedings of the Symposium on Information Theory*, pp. 150–152. Ministry of Supply, London.

TAN, S.T. (1977) Describing pawn structures. In Advances in Computer Chess 1, (ed. M.R.B. Clarke) pp. 74–88. Edinburgh: Edinburgh University Press.

TURING, A.M. (1953) Digital computers applied to games. In Faster Than Thought, (ed. B.V. Bowden) pp. 286-310. Pitman, London.

We would like to thank Professor Donald Michie for encouragement and helpful discussions of this work, our colleague Alen Shapiro for programming assistance, and Don Beal for useful comments. Also deserving many thanks are the various people who took the time and trouble to carry out our experiment on their computer chess programs and the human chess-player subjects who participated.

Bratko-Kopec Experiment INSTRUCTIONS

In the next hour subjects are asked to select their preferred move(s) for 24 chess positions. The time limit per problem is no more than two minutes. Positions will vary with White and Black to move. The preferred move is to be written in the space provided on the answer sheet. Space is also provided for your 2nd, 3rd, and 4th choices if they exist. Please note that the order of your choices is important. After completing the task we would appreciate your comments on the experiment.

ANSWER SHEET

Name:	
Grading (give source please); _	Age: Nationality:

Position Number	(Side To Move)	Preferred Move	2nd Choice	3rd Choice	4th Choice
1.	(B)				
2.	(W)				
3.	(B)				
4.	(W)				
5.	(W)				
6.	(W)				
7.	(W)				
8.	(W)				
9.	(W)				
10.	(B)				
11.	(W)				
12.	(B)				
13.	(W)				
14.	(W)				
15.	(W)				
16.	(W)				
17.	(B)				

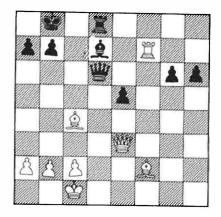
18.	(B)			
19.	(B)			
20.	(W)			
21.	(W)			
22.	(B)			
23.	(B)			
24.	(W)			
		ı		l:

Comments on the Experiment:

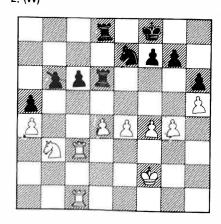
Score: ___



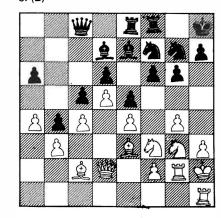




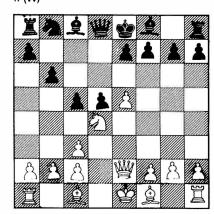
2. (W)



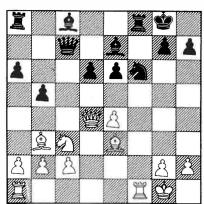
3. (B)



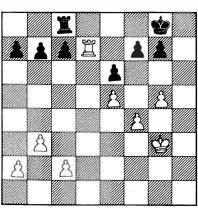
4. (W)



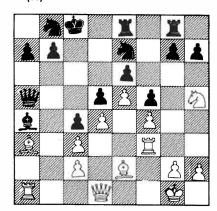
5. (W)



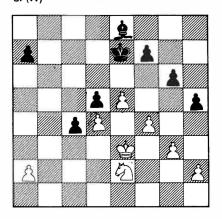
6. (W)



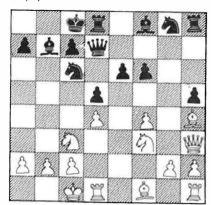
7. (W)



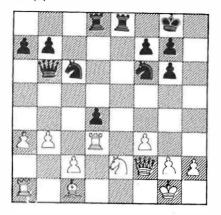
8. (W)



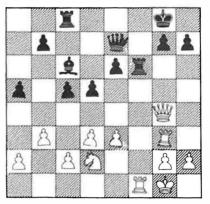




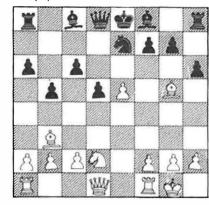
10. (B)



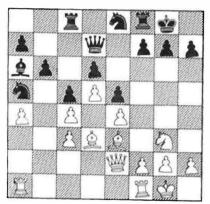
15. (W)



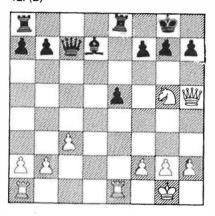
16. (W)



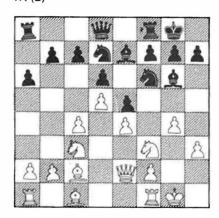
11. (W)



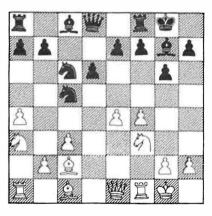
12. (B)



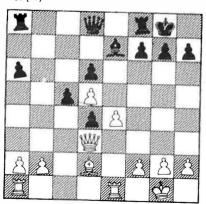
17. (B)



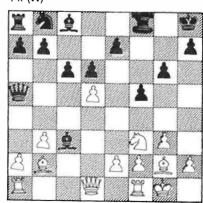
18. (B)



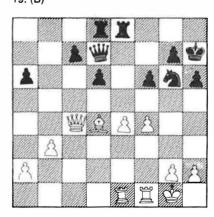
13. (W)



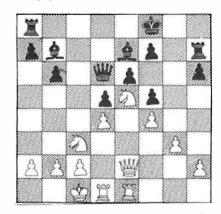
14. (W)

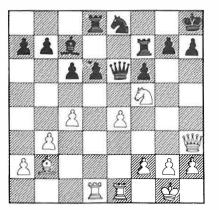


19. (B)

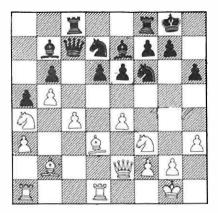


20. (W)

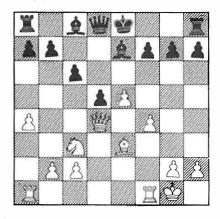




22. (B)



23. (B)



24. (W)

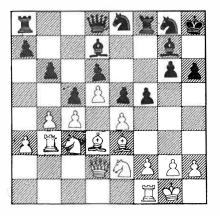


TABLE 4. **MASTER ANSWER SHEET**

Туре	Players	Best Move	Source Side To	Side To Move		
T	1 . Andersson - Knuttson	Qd1+	Inf. 18, No. 9	(B)		
Р	2 . Bogolyubow -Spielmann,	d5	P.P.D.144	(W)		
Р	3 . Evans - Rossolimo,	f5	P.P.D164	(B)		
Р	4 . Spielmann - Walter,	e 6	P.P.D146	(W)		
T	5 . Rogolewicz - Jarecz	Ndt, a4	Inf. 18, No. 24	(W)		
Р	6.	g	P.P.D.105	(W)		
T	7 . Golyak -Gaiduk	Nf6	Pachman D222	(W)		
Р	8 . Alekhine -Yates	f5	P.P. D65	(W)		
Р	9 . Jansa - Ornstein	f5	Jansa-Hort No. 14	(W)		
T	10. Kabadzjah - Cibelavvili	Ne5	Inf. 18 No. 45	(B)		
Р	11. Byrne - Kotov	f4	P.P.D.177	(W)		
Т	12.	Bf5	Pachman D3	(B)		
Р	13. Pfeiffer - Trifunovich	b4	P.P.D69	(W)		
Т	14. Robatsch - Jansa	Qd2 (seq. form)	Inf. 18, No. 32	(W)		
Т	15. Fischer - Mecking	Qxg7+	Fischer's Games G726	(W)		
T	16. Vasilchuk - Bobolovitch	Ne4	Pachman D18	(W)		
Р	17. Bosch - Kmoch	h5	P.P.D. 176	(B)		
T	18. Maric - Fischer	Nb3	Fischer's Games G458	(B)		
Т	19. Euwe - Keres	Rxe4	P.P.D.154	(B)		
Р	20. Euwe - Flohr	g4	P.P.D.90	(W)		
T	21. Tarrasch - Blackburne	Nh6	Pachman D27	(W)		
T	22. Najdorf - Reshevsky	Bxe4	Pachman D50	(B)		
Р	23. Jansa-Kavalek	f6	Jansa - Hort D24	(B)		
Р	24. Szabo-lvkov	f4	P.P.D160	(W)		

T = Tactical Position

(Where P.P.D. stands for

P = Lever Position

"Pawn Power", Diagram No.)

Sources

- 1. Pawn Power
- 2. Informator No. 18
- 3. The Best Move 4. Modern Chess Tactics

Alexander Matanovic, (Editor) Vlastimil Hort & Vlastimil Jansa

Ludek Pachman

Author(s)

Hans Kmoch

COMPUTERS AND PROBLEMS by **Bob Sostack**

The proficiency of computers for solving directmate chess problems varies considerably with each program on the market. For this rason only the latest computers, advanced enough to solve a minimum of mate in 4 problems, were evaluated. They include: The Capablanca endgame module (improved version),

Challenger "9", Champion Sensory Challenger, Chess Champion Mark V, Conchess, Elite Challenger, Mephisto II, Prestige Challenger, Prodigy, Robot Adversary, Super Sensor IV, and Sensor Chess. Unfortunately, Laser Chess, The Philador module for the Mark V, the Royale, and Steinitz/Mega 4 programs were unavailable for testing at the time of this writing due to the manufacturers' inability to supply units.

First of all, keep in mind that the most

important rule applying to all chess problems is that mate must be forced only in the stipulated number of moves, and in all lines. Any mate that exceeds this number does not count as the solution. And problems are not sound unless they have only one solution (first move or "key"). Legal positions (those that can be derived from the initial position of a game) are also required for problems.

There are two computers that outperform the other 10 in every type of problem; they are the Mark V and Prestige. They are the only computers that can solve any problem up to 7 moves (excluding problems that require retrograde analysis) with a 100% accuracy rate. This has been made possible mainly through the combination of 3 critical functions that only the Mark V and Prestige posses: 1) the number of moves to a problem are input so the program will limit its search only to the correct ply. 2) considers all legal moves including underpromotion by both sides, and 3) will look for any "cook" or alternate solutions and display each one - regardless of how many cooks there are.

The other computers have a mixture of features (see chart), but none can verify the soundness of a problem (#3 above). And more than half of the computers can come up with a wrong solution that is one or more moves longer than he stipulation. This is due in part to the way in which programs search positions. Chess programs have been designed to find mates in the fastest time rather than the shortest number of moves. This may be great for tournament players, but it's a disaster for solving composed problems, where time is not a factor.

To find mates in the minimum amount of time, programs are instructed to first examine lines involving "violent moves" such as checks and captures, and temporarily leap ahead several ply and bypass many "quiet moves in the process. If a mate is discovered at this point, the computer will not go back to look for a shorter mate. Although this method of move ordering is common at all levels of play, its use is even more pronounced in special mate finding levels. The Challenger "9", Prodigy, and Super Sensor IV are the only computers not to have a "mate finder". Instead, the "9" and Sensor IV analyze in an infinite tournament time setting, and the Prodigy applies a 24 hour "postal chess" time limit.

The correction for over solving has been to add a "fixed search" to the mate mode. This has the effect of forcing the program to solve the problem within the stipulation by exhaustively analyzing all the possibilities up to that point.

Retrograde analysis (RA) is the only operation that can not be performed by any chess computer now on the market. RA is necessary for problems where castling and/or an e.p. capture may be possible. It's also necessary in some cases to verify the legality of a position. The Mark V is the only computer that partially addresses RA by automatically asking the programmer if castling (either side) and/or e.p. is legal in all applicable positions. The actual task of performing RA is left to the human to figure out. while the Mark V patiently waits for a "yes" or "no" answer. Of course some RA problems can be solved by trial and error, but there's one exception to the "yes-no" test. It occurs when there's a solution to both ves and no and only one is correct. Until a program is developed that will incorporate all aspects of RA, humans will have to calculate the extrapolations themselves.*

For any chess computer to be a successful problem solver, it must be able to compute any possible pawn underpromotions. Problem literature is filled with promotion themes, so its importance as a major strategic device can not be underestimated. The following classifies the extent of each computer's underpromoting ability:

A) Analyze under promotions for both sides while computing, and when the other side has the move:

> Prestige Mark V Challenger "9" Conchess

B) Analyze underpromotions only for itself while computing, but allows the other side to underpromote:

Elite

C) Underpromotes for itself, but not for the other side:

Sensor Chess

Robot Advesary

D) No underpromotions for either side:

o underpromotions for either Capablanca Prodigy Mephisto II Super Sensor IV

Computers in "B" and "C" can't

solve problems where black's only defense is to underpromote, but they can solve "allumwandlungs" (four promotions) and other multiple promotion problems as long as one variation is to a queen.

Functional Chart

	1	2	3	4	5	6	7	8	9	10
Chess Champion Mark V	7	7	Υ	Υ	Υ	N	2	Υ	N	s
Elite Challenger	11	8	Υ	Υ	Υ	Υ	2	Υ	Υ	F
Prestige Challenger	16	8	Υ	Υ	Υ	Ν	1	Υ	Υ	F
Mephisto II	8	7	Ν	Υ	Υ	Υ	3	Ν	Υ	S
Champion Sensory Challenger	11	7	Υ	Υ	Υ	Υ	2	Υ	Υ	F
Challenger "9"	7	7	Υ	Ν	Υ	Υ	1	Υ	Ν	F
Capablanca Endgame Module	11	6	Υ	Υ	Υ	Υ	3	Ν	Υ	F
Robot Adversary	7	7	Ν	Ν	Υ	Ν	1	Ν	Ν	F
Conchess	7	7	Ν	Ν	Ν	Υ	2	Υ	Υ	F
Prodigy	7	4	Υ	Υ	Υ	Υ	3	Ν	Ν	F
Sensor Chess	4	4	N	Ν	Υ	Ν	2	Ν	Ν	F
Super Sensor IV	7	5	Ν	Ν	Ν	Ν	2	Ń	Ν	F
Y = YES	i		N =	= NC)					

- 1. Maximum length of problem that can be solved (in moves) theoretically
- 2. Maximum length of problem that can be solved (in moves) realistically
- 3. Announce or display that mate has ben found in "n" moves
- 4. Clock display
- Will analyze all vriations of a solution without changing levels (assuming no dual secondary moves for white)
- 6. Displays move while computing in problem mode
- Ease of position set-up/varification (scale: 1 easy, 2- average, 3- involved)
- 8. Checks for illegal positions (only for too many pieces on the board, and for pawns on the first and eighth ranks)
- 9. Displays depth of search while in problem mode
- 10. Type of program search: (F) Full width; (S) Selective

^{*}For a more detailed treatment on RA see: The Chess Mysteries of Sherlock Holmes (1979), and The Chess Mysteries of the Arabian Knights, by Raymond Smullyan Knopf, 1981.

REVIEWS

Prestige



When I first received Prestige around two months ago I was disappointed at the fact that it didn't do what it was supposed to, according to a conversation I had had with Kathe Spracklen last June, namely: It was incapable of sacrificing material for the positional advantage or for a strong attack. This initial disillusionment has been steadily replaced by an appreciation for what it does do: play a game better in every respect than any other chess computer now available, sometimes by an order of magnitude. Due to the increased sophistication of the program, it's slower than Elite (some 20% to 30% in most positions; about half as fast to find a checkmate), although you will seldom notice this difference in a game. What you will notice is that Prestige plays the strongest, most coherent, most humanlike, most competent, most fun game available today among chess machines. And if I sound enthusiastic about Prestige it's because I am. I want to emphasize that the 100-point difference in strength relative to Elite is, in my opinion, less important than its humanlike style of play. In this very consumeristic field, one can only wonder about future Spracklen programs that, utilizing faster microprocessors, will overcome some of Prestige's limitations (e.g. the discontinuity between openings and middlegames or between middle-games and end-games). Why, when ahead in the middle-game, is Prestige still incapable of simplifying the position to play for an easy-to-win ending?.

The Fidelity-Spracklen team is once again not being fair. Not satisfied with already having the strongest machine (Elite) and the best performance/price ratio (SC9), they have come now with another chess computer that is not only the best but a full class above the competition.

Coming back to more mundane considerations, I can't help but wonder at the poor quality of Prestige's instruction manual. Not only is it not accurate and comprehensive enough, but it is not even well printed. And this is a real shame, for I know of several instances of frustrated Prestige owners looking for help while trying to understand how their new and otherwise excellent machines work. Also, they get whimsical from time to time and refuse to play until they are unplugged and plugged in again.

I realize now that I have forgotten to include some positive aspects of Prestige which, if only by comparison with its chess playing ability, seem minor to me. The auto-response board is very competent and well-crafted, and the package includes all the features you can imagine and then some.

To conclude, Prestige is in my opinion a brilliant departure from the "brute force" school to which the Spracklens adhered for so long. It is a most promising step in what I am convinced and they have proved to be the right direction.



This variation on a theme by the Spracklens has been until recently the strongest microcomputer commercially available and also the prime exponent of the "brute force" school. The main differences in performance between Elite and his smaller brother, Champion, should be attributed to the doubled clock speed (from 2 MHz, to 4 MHz,) and, even more importantly, to the increased extensions for captures and for checks. Champion's 2-ply extensions were expanded to a number that seems to be proportional to the full-width search. During the middle-game, a 5-ply fullwidth search will have 5 more ply of extensions for captures and checks, so Elite will find a mate in 5 (10 ply). During the eng-game, the extensions seem to be three times as deep as the full width search. If looking ahead 5 ply it will see a checkmate in 7 (14 plv). These increased

extensions are also shared by the newest Spracklen programs, SC9 and Prestige, and add a good deal to the tactical strength of a given program. Some other machines, Conchess for instance, could really benefit from this.

Otherwise, Champion and Elite seem to be basically similar. Maybe as a result of its increased tactical ability, Elite seems to be a bit more active, although it is still very much on the passive side. This, together with its inability to play the pawns during the middle-game and its tendency to play some moves not relevant to the position, makes Elite play a "computerlike" game, one that I am not particularly fond of. In other words, even admitting that Elite was clearly stronger than the Mk V, I personally preferred the latter when I felt like playing chess.

It seems that some substandard Elites (3.6 MHz. instead of 4 MHz.) have reached the market. Although this difference in speed will hardly affect the playing strength, it seems to be difficult to accept in view of Elite's cost, already too high to begin with. I also had some minor reliability problems. In my first Elite the voice and the beep didn't always work properly, and the B2 LED refused to light. In my second Elite, none of the 4thrank LED's worked after a 20- or 30-minutes warm-up period.

Finally, the instruction manual failed to inform about some Elite features, like the fact that it plays different openings in the best and in the radom modes.

Mephisto



This one is a real gem. Prior to the Prestige arrival, while looking at the games it was playing I wondered why other chess programmers hadn't realized that they had reached a plateau with their brute-force approach, while Mephisto, with a much slower microprocessor (4 to 5 times slower than Elite or Prestige), was playing as strong

a game as the best (then Elite), and a more humanlike, more active and interesting one. In the middle-game Mephisto seems to be as humanlike and as active as Prestige, although its much slower speed makes it less strong tactically, something particularly noticeable in the end-game (Prestige looks ahead typically 1 ply deeper in the middle-game and between 2 and 3 ply deeper in the end-game). It's precisely in this last phase of the game where Mephisto seems to be relatively weaker than the best of its electronic competitors, mainly because of its recurrent inability to play its king actively when required, something that made it lose some favorable games (e.g. games 41 and 43).

Its otherwise excellent coherence and chessplaying ability makes it the second-strongest chess computer available and in many instances as fun to play with as Prestige. In other words, if I had to choose between Mephisto and the now-sold-out Elite, even for the same price I would take Mephisto.

With the Mephistos I used, a total of 6, I had no reliability problems. I will add that its optional and expensive autoresponse board works and looks at least as well as that of Prestige.



The third product of the fruitfull collaboration between Fidelity and the Spracklens has a performance/price ratio that has become the standard by which to judge all chess playing products, one that seems extremely difficult to improve upon. Although slightly slower than Champion (1.5 MHz, as opposed to 2 MHz.), SC9's program is positionally more accurate than Champion's (or Elite's, for that matter), while also being tactically sharper. Because of the increased activity of its play and its better understanding of the pawns' role in the middle-game, it provides a considerably more humanlike, more coherent, and more fun game. Its end-game is also improved over Elite's and Champion's. Although lacking some "needed" features (e.g. depth display and position evaluation), the game it plays is so good relative to its price that it has to be considered the best buy in today's market, providing that the SC9 is considered without the addition of the opening modules, which add a lot to the price and probably nothing to the strength. In absolute terms, only the more expensive Prestige, Elite and Mephisto play a stronger game.

I have been using two SC9's and I have seen only one difference between them: One is about 7% faster than the other and, probably because of this, they sometimes will play a different move. Nevertheless, in the 54 games they played they scored roughly the same. It's peculiar, though, that sometimes (maybe 10% or 20% of the time) they will seem not to be thinking on the opponent's time.

I would like to add that, at the price, nobody has the right to ask for anything better in a chess computer.

Conchess



Here we have an inexpensive autoresponse board that finally incorporates a modular microprocessor, so you won't have to throw your machine away when the manufacturer comes with something faster. And it just so happens that it plays an excellent game of chess. Active, tactical and fun, it also has enough positional understanding to provide us with a "humanlike" game. Because it is relatively inexpensive, truly upgradable and generally sound in its program, the obvious shortcomings are, to me, particularly frustrating.

Its limited extensions for captures and checks handicap Conchess in the kind of complicated games it likes to play. In addition, its opening book is so brief that I could enter this machine only in 4-game matches vs. the other ones. Otherwise, it

would have repeated the same openings and the same games.

If what I have said about extensions for captures and checks in Elite's review is right, Conchess programmers should be able to easily come up with an 1800 + program that, provided it will include a more enjoyable opening book, should prove to be extremely competitive in the actual marketolace.



During the fall of '81 Champion, the first Spracklen program to be commercialized by Fidelity Electronics, was the strongest chess computer on the market. Together with some gimmicks (e.g. the voice and the grandmaster games), it came with a chess program capable of playing chess at a decent level, one that cared about pawn structure and piece development more than any previous machine, while also playing fewer irrelevant moves. It also played an exceedingly passive game of chess, sometimes moving the king from G8 to H8 back and forth, as though it "didn't know what to do," offering what I considered to be a very boring time. Its endgame was its weakest aspect, even more so than for its competitors, and that is saying a lot.

Even if recognizing its achievements, I smiled happily the day I sold mine.

Scisys Mark V



An executive of Hegener & Glaser (Mephisto) told me at the summer Con-

sumer Electronics Show that "the Scisys Mark V is an engineering masterpiece." And I couldn't agree more. This beautiful machine has about all the features I care for in a chess computer, including the ability to play up to 12 simultaneous games and LCD piece symbols that are not confusing. Its program is as strong as Champion's, but much more active and more fun, a program that tries to complicate matters and plays an eminantly tactical game. Its opening style (see the article about ungradability) is an interesting one, although limited in scope. Its positional play isn't precisely great, bettered by all the competition with the possible exception of Morphy. Anyway, because of its human engineering and the fun game it provided, the Mark V was for a long half-year my favorite machine, the one I used most often, even after I became the proud owner of an Elite.

I have had only minor reliability problems with my two machines. Both refused to work a couple of times, a situation that was mysteriously aleviated by unplugging them for 48 hours. Also, the keys sometimes tend to stick. Otherwise, Mk V's consistency is excellent, and by this I mean that they always seem to play the same moves given the same time control, something that doesn't necessarily happen with other models.

M.G.S. and G.G.M.



This machine, chronologically the first to play chess at a decent level, has an excellent reliability record. In my personal experience with four of them, only one ever refused to function properly, and that was my fault, since I forgot to switch to "memory" while pluggging in a cartridge. Otherwise they worked admirably well time after time.

Its main shortcoming is probably the discontinuity between the three main phases of the game. In other words, you

have, with the so-called "master trio," three distinctly different and not-wellintegrated players. As discussed in the section on upgradability, when Morphy takes over from Grunfeld it will generally play moves that have little to do with the position. Also, Morphy's positional and tactical capabilities are not exactly the best I have ever seen in a chess microcomputer. It's in this combination of factors that we find the "master trio's" inherent weakness, one that Capablanca tried to solve partially, but not with complete success. The endgame cartridge enters the game too late to be of great value and, at the same time, it doesn't seem to be strong enough to fully justify its specialized end-game character. As an example, I and a programmer connected with Applied Concepts tried the position that results after the exchange variation of the Ruy Lopez, but taking off all the pieces other than the kings and pawns. Against Elite (itself a rather weak endgame player), Capablanca lost with white and with black. It's most fortunate that Jose Raul Capablanca didn't see that.

Morphy, only 18 months ago the reference standard for competing microcomputers, is, together with Grunfeld and Capablanca, basically obsolete in today's market. That can give you an idea about how quickly things move in this field and about how successful the modular concept has been.

Savant



Together with the Mk V, Mephisto's ESB, and Prestige, this is, in my opinion,

^{&#}x27;Prodigy is basically a Morphy in an attractive disguise, with an even more attractive price. Its small size and its ability to run on batteries makes it truly portable, and its program seems slightly improved (if only for speed chess) over Morphy, its otherwise twin brother.

the best looking machine in the market. It is also blessed by a printer and a clock (optional) that not only work consistently (not · necessarily true for Fidelity's printer), but also integrate with the machine so as to form a handsome unit.

Its positional play is a least as good as the best in the winter '82 tournament, but Its tactical ability and its end-game play were the culprits to blame for its last place finish in that particular event. Its active and not-excessively-computerlike game compensates for its above-mentioned weaknesses and, in my opinion, Savant's game should be considered roughly as good as Mk V's,

Champion's, and G.G.M.'s.

I have found two kinds of problems in the three Savant I have used. Sometimes they will stop in the middle of a game and re-start for a new game; great for your ego if you are losing, but very frustrating in most cases. Also, it is occasionally necessary to replace a burned-out bulb behind the LCD board.

I should also mention that I never got used to some of the piece symbols in the LCD display, having a difficult time distinguishing between the rooks and the queens.

PREVIEWS

Philidor

Eureka! I got it! I said to myself when I received two Philidor modules in late October. During the past spring I became so compulsive about this much-awaited update on the Mk V that I was ready to kill in order to get a Philidor prototype. But they wouldn't give it to me. Anyway, I finally got it and, not without great trepidation, I plugged this marvel into my dear Mk V. 1st check: It played many more openings, 2nd check: It was tactically much faster than the previous Mk V. On the verge of a heart attack, I immediately started a match at 40/2 vs. the best there is amongst microcomputers: Prestige. The result? 10-0! ...in favor of Prestige, of course.

What has happened? When I.M. David Levy (co-author of Mk V and Philidor) played vs. CHESS 4.9 some years ago, he said that the best way to play a computer is to "do nothing, but do it well." Philidor is undoubtedly a partial success in the application of this formula, for it doesn't do anything. The problem is that it doesn't do it well. It's so incredibly passive that it wasn't defeated by Prestige, rather it was massacred. In the several games I myself played against Philidor I wasn't really threatened even once, as it played for a more an more confined position, allowing me to build any kind of attack I wished. It shares with Champion the dubious honor of being the most passive program I have tried.

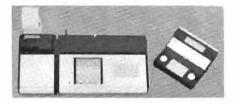
What else can I say? This is only a first impression, and naturally I admit the possibility of being wrong. In this case, at least the theoretical possibility.

Steinitz

As of today I have only had the opportunity to use a Steinitz prototype, in many ways different from the final version to be commercialized shortly. It seems to be based on Capablanca, with some added middle-game heuristics, and also includes a 4,000-move opening book. According to the information I got from a programmer connected with Applied Concepts, the final version of Steinitz has played the following two 10-game matches at 40/2: In the first it defeated G.G.M.'s "master-trio" 7-3; in

the second it lost to SC9 4.5-5.5. According to the same source, Steinitz should be around 150 points stronger than Morphy, reaching the 1750 level in the old 2 MHz. mainframe. The new 4 MHz. machine, to be released sometime this winter, is supposed to bring Steinitz's strength to around 1800. I also have heard that the commercially available Steinitz is different from the one that supposedly defeated Elite 5.5-4.5.

Savant Royale



Received too late to allow for thorough testing, the Savant Royale, identical to the previous Savant in its features and in its gorgeous appearance. comes with a supposedly improved program, an expanded opening repertoire and an increase in clock speed from 6 MHz. to 7.5 MHz. Although I didn't have time to play enough games to form an accurate opinion about its strength and playing style, my first impression is that it plays an active and fun game that could put Savant Royale in the 1700's. Just like the original Savant, its idiosyncratic electronics decide from time to time to play a new game instead of finishing the old one.

Notes:

- 1: Subjective Estimate
- 2: A = Active; P = Passive; M = Intermediate
 3: (In Relative Terms) 1 = Maximum; 2 = Intermediate; 3 = Minimum
 4: Required: Battery Operated and Small Size.

COMPARATIVE CHART

	PRESTIGE	ELITE	MEPHISTO		S.C. 9	CONCHESS	CHAMPION	Mk. V	G.G.M.	SAVANT	PRODIGY
Estimated Rating (1)	1930	1850	1820		1760	1720	1670	1670	1630	1630	1600
Book Size	16 K	4 K	3 K		3 K	800	3 K	1 K	6 K	3 K	400
Middle Game Strength (1) Tactical	2200	2250	1900		2000	1850	1850	2000	1800	1800	1800
Positional	1800	1500	1750		1650	1650	1500	1400	1400	1550	1400
End Game Strength (1)	1600	1500	1400		1500	1400	1300	1400	1400	1350	1350
Active/Passive (2)	Α	Р	Α		М	Α	Р	Α	М	M	M
Human Like (3)	1	3	1		2	1	3	3	3	2	3
Typical Look-Ahead Middle Game Full Width	5	5	4		4.5	4.5	4.5		4	4	4
Selective	10	10	8		8-9	6-7	6-7	8	5	6	5
User Adjus	Y	Υ	N		N	table Time	Control	Y	N	N	N
Displays Main Variation	Ý	N	N		N	N	N	N	Capablanca	Υ	Ν.
Displays Depth of Analysis	Y	Y	Y		N	Y	Υ	N	Capablanca	N	N
Displays Position Evaluation	Ý	Ý	Ý		N	N	N	Y	Capablanca	N	N
Underpromotes	Ý	Ϋ́	N		Y	Y	Υ	Υ	N	Υ	N
Accepts/Refuses a Draw	Y	N.	N		Y	N	N	Y	N	N	N
Offers A Draw	N	N	N		N	N	N	Y	N	N	N
Claims A Draw	Y	N	Y		Y	Y	N	Υ	Capablanca	Υ	N
Resigns	N N	N	N		N	N	N	Y	N	N	N
Announces Forced Mate In Advance	Y	Y	Y		Y	N	Υ	Y	Υ	Υ	N
Random/Best Option	N	Ϋ́	Ϋ́		N	N	Y	N	Υ	Υ	N
Plays Simultaneous Games	N	N	N		N	N	N	Y	N	N	N
Next Best Option	Y	N	N		N	N	N	Mate Problem	N	N	N
Ease To Enter Opening Position (3)	11 1 1	1	1		Ĭ	1	1	1	1	1	3
Ease To Enter Problems (3)	1	1	2		1	1	1	2	3	1	3
Auto Response Board	Y	N	Optional		N	Y	N	N	N	N	N
Key-In Moves	N	N	Y		N	N	N	Υ	Υ	N	Υ
Pressure Sensitive	N	Υ	N		Y	N	Υ	N	N	Y	Υ
L.C.D. Board	N	N	N		N	N	N	Y	N	Υ	N
Selectable Openings	Y	N	Y	□	Υ	N	Υ	N	Υ	N	N
Take Back (No. of Ply)	40	39	AII		22	All	39	All	6	All	6
Retains All Game In Memory	N	N	Υ		N	Y	N	Y	N	Υ	N
Clock	Y	Y	Y		N	N	Υ	Y	Υ	Optional	Y
Count-Down Mode	Y	Υ	N		N	N	Υ	N	N	N	N
Move Counter	Y	N	Υ		N	N	N	Y	Υ	N	Y
Plays White/Black From Bottom	Y	Υ	Υ		Y	N	Υ	Y	N	Y	N
Audio Desable	Y	Υ	Y		Y	N	Υ	Y	Υ	Υ	Y
Portable (4)	N	N	Υ		N	N	N	N	N	N	Y
Modular Program	Add-on Modules	N	Υ		Add-on Modules		N	Y	Υ	Υ	N
Modular Microprocessor	N	N	N		N	Υ	N	N	■ N	N	N

	FALL '82 TO	IIDNAMENT					
1 DESTINE FLITE			07 OCO7 F7FC	12 H2H4—F7F6	09 C1B2—E8G8	24 D4E5—F6F8	24 E5D6—E8D6
1. PRESTIGE - ELITE	27 D1D2—F8B8 28 C4A5—E7H4	28 E1F1—E7F6 29 F1F4—A8C8	37 C6C7—E7E6 38 C7G7—G5E5	13 G5E6—C8E6	10 E1G1—C8G4	25 D6E6—G8H8	25 D5C6—F8D8
01 B2B3—E7E5	29 H1G1—A7A6	30 D4A7—F7G8	38 C7G7—G5E5 39 E3E5—E6E5	14 D5E6—H6E3	11 H2H3—G4F5	26 H5E8—F8E8	26 E1E7—D6E8
02 C1B2—B8C6	30 A5C6—B8B6	31 F4E4—F6C3	40 F1G2—E5F6	15 G1H2—F6F5	12 D2D3—A8C8	27 A4A5—B7B8	27 D1E1—G6G5
03 E2E3—D7D6 04 C2C4—G8F6	31 B3B4—B6B7	32 E4E6—C8A8	41 G7D7—H7H5	16 D1D3—E3D4	13 E5D6—E7D6	28 D2H6—E7G8	28 C5D4—A8B8
05 B1C3—C8F5	32 D2C2—G7F8	33 A7C5—A8A2	42 D7D6—F6G5	17 E4F5—E7F5	14 B5C6—C8C6	29 H6G7—H8G7	29 C3C4-B5C4
06 D2D4—E5D4	33 B1A1—C5B4	34 E6E4—A2A5	43 G2G3—H4C4	18 G2G3—D8C8	15 D1D2—F8E8	30 E6G4-G7H6	30 C6C4—C8F5
07 C3D5—D4E3	34 A1A6—B4B3	35 C5E7—A5A4	44 H2H4—G5F5	19 C3D5—C7C6	16 A2A4-D6C7	31 G4H4-H6G6	31 D4B2-B8B2
08 D5E3—F5G6	35 C2B1—H5F4	36 E4F4—H7H5	45 D6D1—F5E6	20 F1F5-C6D5	17 A1E1—E8E1	32 H4G4-G6H6	32 E7E8—D8E8
09 G1F3—F8E7	36 G2G3-F4H3	37 G1F2—G8H7	46 F3F4-C4C3	21 F5F8—C8F8	18 F1E1—C6E6	33 G4F4—H6H7	33 E1E8—G8H7
10 F1D3—G6D3	37 G1H1—H4H5	38 F2E3—H7G6	47 F2F3—C3C2	22 C4D5—D4B2	19 E1E6—F5E6	34 F4F7—H7H6	34 C4D3—F5G6
11 D1D3—E8G8	38 C6A5—B7D7	39 F4E4—C3F6	48 D1D3—C2B2	23 A1B1—F8F2	20 D2C3—D8F8	35 A5B6—A6B7	35 E8A8—B2C2
12 E1G1-F6D7	39 B1D3—B5B8	40 E7F6—G7F6	1/2-1/2	24 H2H3—B2D4	21 B2C1—F8D6	36 F7B7—B8B7	36 D3G6—H7G6
13 D3F5-E7F6	40 A5B3—F8G7	41 E4D4—A4A3		25 B1B7—A8C8	22 C1A3—D6F4	37 B6A7—B7B1	37 A8A6—G6F5
14 B2F6—D7F6	41 B3D4—H3G5	42 E3D2—C4C3		26 D3B5—F2G1	23 A3C5—E6H3	38 A1B1—E8A8	38 A3A4—C7C5
15 F5G5—F6E4	42 H2H4—G5H7	43 D2C2—A3A2	5. ELITE · MEPHISTO	27 E6E7—G1H1	24 C3D2—F4D2	39 B1B7—H6H5	39 A6A7—F5G6
16 G5F5—F8E8	43 D4B5—G6G5	44 C2C3—A2H2	01 E2E4—E7E5	28 H3G4—H1E4	25 F3D2—B7B6	40 F2F3—G8H6	40 A4A5—C5C4
17 E3D5—D8C8	44 B5D6—G5H4	45 D4D2—H2H3	02 G1F3—B8C6	29 G4H3—E4H1	26 C5E3—H3F5	41 E5E6—H6G8	41 A5A6—C2A2
18 F5H5—C6E5	45 G3G4—H5G6	46 D2D3—F6F5	03 F1B5—A7A6	30 H3G4—H1E4	27 G1F2—H7H5	42 B7B8—A8A7	42 A7C7—A2A6
19 F3E5—D6E5	46 D6F5—F7F6	47 C3C4—H5H4	04 B5A4—G8F6	31 G4H3—E4H1	28 G2G3—F7F6 29 D2F3—G7G5	43 B8G8—A7E7	42 C7C4 ½-½
20 H5H4—E4F6	47 F5H4—G6F7	48 G3H4—H3H4 49 C4D5—F5F4	05 E1G1—F8E7	32 H3G4—½-½	30 F3D4—F5D7	44 G2G4—H5H6	
21 D5F6—G7F6	48 H4F5—H7G5 49 E3D4—G5H7	50 D5E4—G6G5	06 F1E1—B7B5		31 D4F3—C7D6	45 G8D8—E7E6 46 G1F2—E6A6	
22 H4F6—C8G4	50 D3D2—F7G6	51 D3D8—G5G4	07 A4B3—D7D6	7. ELITE - MEPHISTO	32 C2C4—D5C4	47 D8D5—A6A3	
23 A1D1—A7A5	51 D2F4—B8C8	52 D8G8—G4H3	08 D2D3—E8G8		33 D3C4—D6B4	48 H2H4—A3C3	11. ELITE · MEPHISTO
24 H2H3—G4G6	52 F1C1—C8C1	53 E4F3—H3H2	09 B1C3—B5B4	01 D2D4—G8F6	34 E3D2—B4D2	49 D5D6—H6G7	01 D2D4—D7D5
25 F6F3—E5E4 26 F3F4—E8E7	53 F4C1—G7F8	54 G8G2—H2H3	10 C3D5—F6D5	02 C2C4—E7E6	35 F3D2—H5H4	50 D6D7—G7F6	02 C2C4—E7E6
27 D1D5—G8F8	54 A6A8—H6H5	1/2-1/2	11 B3D5—C8D7 12 D3D4—E7F6	03 G2G3—F8E7 04 G1F3—E8G8	36 D2E4—G8G7	51 D7D2—C3A3	03 B1C3-G8F6
28 F1D1—B7B6	55 C1H6—G6H6		13 D4E5—D6E5	05 F1H3—D7D5	37 G3H4-G5H4	52 H4H5—A3A2	04 G1F3-F8B4
29 D5G5—G6E6	56 F5H6—G8G7		14 C1E3—D8E7	06 C4D5—E6D5	38 E4D6—G7G6	53 F3F4—C4C3	05 C1G5-D5C4
30 A2A3—E4E3	57 H6F5—G7G6	4. MEPHISTO - ELITE	15 D1D3—E7D6	07 H3C8—D8C8	39 F2G2—F6F5	54 D2E2-F6G7	06 E2E4—H7H6
31 F4G3—E3F2	58 G4H5-G6H5	01 D2D4—D7D5	16 A1D1—F6E7	08 E1G1—B8C6	40 G2F2—F5F4	55 G4G5—A2A7	07 G5F6—D8F6
32 G1H2-E7E8	59 D4F6—H7F6	02 C2C4—E7E6	17 D3C4—D7E8	09 B1C3—H7H6	41 D6B5—D7B5	56 H5H6—G7G6	08 F1C4—B4C3
33 G5G8—F8E7	60 A8F8—F6D5	03 G1F3—G8F6	18 C4E2—D6G6	10 C1F4—A7A6	42 C4B5—H4H3	57 E2E3—A7C7	09 B2C3—F6G6
34 G3G5—E6F6	61 E4D5—D7D5	04 C1G5—F8E7	19 F3E5—C6E5	11 A1C1—F8E8	43 F2F3—G6F5	58 E3E6—G6F5	10 E4E5—G6G2
35 G8E8—A8E8	62 F5G3—H5H4	05 C4D5—E6D5	20 D5A8—E8B5	12 F1E1—C6B4	44 B3B4—F5E5	59 E6F6—F5E4	11 H1G1—G2H3
36 D1D7—E7D7	1—0	06 G5F6-E7F6	21 D1D3—E5D3	13 A2A3—B4C6	45 A4A5—E5D4	60 G5G6—C7D7	12 G1G3—H3H5
37 G5F6—E8E2		07 E2E3—B8C6	22 C2D3—F8A8	14 D1D3—E7D6	46 A5B6—A7B6	61 H6H7—D7D2	13 G3G7—C8D7
1-0	A FLITE MEDIUME	08 F1D3—C8G4	23 E2C2—G6D6	15 F4D6—C7D6	47 F3F2—D4E4	62 F2G3—D2D1	14 A1B1—D7C6
	3. ELITE — MEPHISTO	09 B1C3—E8G8	24 D3D4—A6A5	16 G1G2—C8G4	48 F2F1—E4F3 49 F1G1—F3G3	63 H7H8—D1G1	15 C4E2—B8D7 16 C3C4—E8G8
2. ELITE — PRESTIGE	01 E2E4—C7C5	10 D1B3—C6E7	25 A2A4—B4A3	17 H2H3—G4E6	49 FIGT—F3G3 0-1	1-0	17 F3G5—H5H2
01 D2D4—G8F6	02 G1F3—E7E6	11 B3B7—A8B8	26 B2A3—A5A4	18 F3H4—A8C8	0-1		18 G5F7—D8G8
02 C2C4—C7C5	03 D2D4—C5D4	12 B7A7—G4F3	27 E4E5—D6D5	19 E2E3—F6E4			19 F7H8—G8G7
03 D4D5—E7E6	04 F3D4—G8F6	13 G2F3—B8B2	28 C2C7—E7A3	20 C3E4—D5E4	9. ELITE · MEPHISTO	10. MEPHISTO · ELITE	20 D1D3—G7G1
04 B1C3—E6D5 05 C4D5—D7D6	05 B1C3—B8C6 06 D4C6—B7C6	14 E1G1—D8A8 15 A7C5—C7C6	29 E1A1—A3B2 30 A1D1—B5C6	21 D3D1—D6D5 22 G2H2—E8E7	01 E2E4—E7E6	01 E2E4—E7E5	21 E2F1—H2G2
06 E2E4—G7G6	07 F1D3—F8D6	16 A2A4—F8B8	31 F2F3—A4A3	23 D1H5—E7C7	02 D2D4—D7D5	02 G1F3—B8C6	22 F2F3—G2G7
07 G1F3—F8G7	08 E1G1—D8C7	17 A4A5—E7G6	32 C7B6—B2C3	24 B2B3—G7G5	03 B1C3—F8B4	03 F1B5—A7A6	23 D3E3—G1G3
08 F1E2—E8G8	09 G2G3—E8G8	18 D3G6—F7G6	33 B6C5—D5C5	25 H4G2—C6D4	04 E4E5—C7C5	04 B5A4—G8F6	24 D4D5—E6D5
09 E1G1—F8E8	10 C1E3—D6E7	19 E3E4—B2B4	34 D4C5—A3A2	26 C1C7—D4F3	05 A2A3—B4C3	05 E1G1—F8E7	25 E5E6—D5D4
10 F3D2—B8A6	11 A1B1—C8B7	20 E4E5—F6D8	35 E3F4—A2A1	27 H2H1-C8C7	06 B2C3-G8E7	06 F1E1—F8E7	26 E6D7—C8D7
11 F2F3—A6C7	12 D1F3—C6C5	21 F1D1-B4C4	36 D1A1—C3D4	28 E1A1—C7C2	07 A3A4—B8C6	07 A4B3—E8G8	27 B1D1—G7H8
12 A2A4—B7B6	13 D3C4—F6E4	22 C5A3—A8A5	37 G1F1—A8A1	29 B3B4—C2F2	08 G1F3—D8A5	08 D2D4—E5D4	28 D1D4—D7C8
13 D2C4—C8A6	14 C3E4—F7F5	23 A3A5—D8A5	0-1	30 H5G4—E6C6	09 C1D2—C8D7	09 E4E5—F6E8	29 D4F4—C8B8
14 C1G5—H7H6	15 E3F4—C7C6	24 C3D5—A5C3	. MEDIUOTO FLITE	31 H3H4—C6C4	10 F1E2—E8G8	10 F3D4—C8B7 11 B3D5—C6D4	30 E1F2—G3G5
15 G5H4—D8D7	16 F4E5—C6E4	25 D5C3—C4C3	6. MEPHISTO - ELITE	32 G4F3—E4F3	11 E1G1—C5C4	12 D5B7—A8A7	31 E3A3—G5G8
16 A1C1—F6H5	17 F3E4—B7E4	26 D1C1—C3D3	01 D2D4—G8F6	0-1	12 D1C1—E7G6	13 B7D5—D4F5	32 F1H3—H6H5 33 H3E6—H8H6
17 B2B3—B6B5	18 B1D1—D7D5	27 C1C6—D3D4	02 C2C4—G7G6		13 C1A3—F7F6	14 D5E4—F5H4	34 E6G8—H6F4
18 A4B5—C7B5	19 C4D3—C5C4	28 A1C1—B8F8	03. B1C3—F8G7	8. MEPHISTO - ELITE	14 E5F6—F8F6	15 G2G3—H4G6	35 A3B3—H5H4
19 C3B5—A6B5 20 C4E3—A8B8	20 D3E4—F5E4	29 C6C3—G8F7	04 E2E4—D7D6	01 E2E4—C7C5	15 F1B1—A5A6	16 E4G6—H7G6	36 G8D5—F4D2
20 C4E3—A8B8 21 E2B5—D7B5	21 C2C3—F8F3 22 B2B3—E4E3	30 G1G2—F7E6	05 G1F3—E8G8 06 F1E2—E7E5	02 B1C3—B8C6	16 F3G5—A8F8	17 C1E3—A7A8	37 F2F1—C6D5
22 E3C4—B5D7	22 B2B3—E4E3 23 F2E3—F3E3	31 C3E3—F8F5 32 C1C6—E6D7	06 F1E2—E7E5 07 E1G1—B8C6	03 F2F4—E7E6	17 E2F3—C6E7 18 A3B4—F8B8	18 B1C3—E7B4	38 C4D5—B7B6
23 G1H1—B8B5	24 E5D4—E3E2	33 C6C2—D7E6	08 D4D5—C6E7	04 G1F3—G8F6	19 F3H5—H7H6	19 A2A3—B4C3	39 B3C4—H4H3
24 H4F2—E8B8	25 B3C4—D5C4	34 C2C5—F5G5	09 C1E3—F6G4	05 E4E5—F6D5	20 G5F3—B7B6	20 B2C3—D8E7	40 C4C6—D2G2
25 C1B1—D7E7	26 F1E1—E2E1	35 G2F1—D4H4	10 F3G5—G4E3	06 C3D5—E6D5	21 F3E5—B8B7	21 D1D5—E7D8	41 F1E1—G2F3
26 F2E3—B8F8	27 D1E1—G8F7	36 C5C6—E6E7	11 F2E3—G7H6	07 B2B3—D7D6	22 B4A3—D7E8	22 E3C5—D7D6	42 C6E8—B8B7
				08 F1B5—F8E7	23 A3D6—G6E5	23 A1D1—D8C8	43 E8C6—B7C8

*Peculiarities of computer notation: $0.0 = \{ETG1; E8G8 \\ 74 \}$ $0.0-0 = \{ETC1\}$

44 C6E8—C8B7	05 G1F3-B8C6	45 G4F6-G7F6	16. CONCHESS - ELITE				
1/2 - 1/2	06 G2G3—C5C4	46 H2G2—E4E3	01 E2E4—C7C5	08 G1E2-C6D5	13 C3A4-A8D8	32 D1G1-G6E8	52 B3A4—H3H2
	07 F1G2—F8B4	47 G2H2—E3F3	02 G1F3—D7D6	09 C4D5-B8D7	14 C1G5—D8D6	33 C3H3—E8E7	53 E7G7—F2G2
40 MEDIUSTO FLITE	08 E1G1—G8E7	48 H3H4—H7H5	03 D2D4—C5D4	10 D1D2—A7A6	15 G5F6—D6F6	34 G1G3—G8F7	54 G7E7—H2H1
12. MEPHISTO - ELITE	09 A2A3—B4C3	49 H2H3—F6F5	04 F3D4—G8F6	11 E2G3—B7B6	16 D1D3—E8G8	35 G4H5—F7F8	0-1
01 D2D4—G8F6	10 B2C3—C8G4	50 G3G4—H5G4	05 B1C3-B8C6	12 F1D3—D7C5	17 A1F1—F6G6	36 G3G6—C6A4	
02 C2C4—E7E6	11 A1B1—G4F3	51 H3H2—F3F2	06 F1E2—E7E5	13 D3E2—C8D7	18 G1H1—G6H6	37 G6G2—C8C6	
03 B1C3—F8B4	12 G2F3—D8D7	52 A3A4—G4G3	07 D4C6—B7C6	14 E1G1—D8C7	19 A4C5—H6H2	38 B6D4—C6C4	21. ELITE · SC9
04 A2A3—B4C3 05 B2C3—E8G8	13 E2E4—D5E4 14 F3E4—F7F5	53 H2H3—C6G2	08 C1E3—D8A5	15 B2B4—C5A4	20 H1G1—F8F6	39 D4E3—A8B8	01 D2D4—D7D5
06 F2F3—D7D5	15 E4G2—C6A5	0-1	09 D1D3—A8B8	16 A1C1—C7B7	21 D3D8—G8F7	40 G2F2—E7B7	02 C2C4—E7E6
07 E2E3—B8C6	16 F1E1—E8G8		10 E1C1—F6G4	17 C3A4—D7A4	22 D8D7—F7F8	41 H5G6—B7B1	03 B1C3—G8F6
08 F1D3—D5C4	17 E1E5—A5B3	15. ELITE - CONCHESS	11 E2G4—C8G4	18 D2D3—A4D7	23 D7D8—F8E7 24 F1D1—F6G6	42 C1D2—C4C2 43 G6C2—B1C2	04 C1G5—F8E7
09 D3C4—F6D5	18 D1E2—B3C1		12 F2F3—G4E6	19 C1C3—B6B5	24 F1D1—F6G6 25 G1F1—H2H1	44 D2E1—C2D1	05 E2E3—E8G8
10 G1E2—D8G5	19 E2C4—G8H8	01 E2E4—E7E5 02 G1F3—B8C6	13 A2A3—F8E7	20 F1C1—A8C8 21 A2A3—C8C3	26 F1E2—H1D1	0-1	06 G1F3—B8D7
11 C4D5—E6D5	20 B1B7—A8C8	03 F1B5—C6D4	14 H2H3—E8G8	22 C1C3—F8C8	27 D8D1—G6G4	01	07 A1C1—C7C6 08 F1D3—D5C4
12 E1G1—F8E8	21 B7D7—C8C4	04 F3D4—E5D4	15 H1F1—F8D8 16 E3F2—E7G5	23 D3C2—C8C3	28 E2E3—G4H4		09 D3C4—F6D5
13 D1B3—G5F5	22 E5E7—C4C3	05 E1G1—F8C5	17 F2E3—E6C4	24 C2C3—B7C8	29 D1B1—H4H3	20. SC9 — ELITE	10 G5E7—D8E7
14 E2F4—E8D8	23 E7G7—C1E2	06 D1H5—D8E7	18 D3C4—G5E3	25 C3C8—D7C8	30 F2F3—G7G5	01 E2E4—C7C5	11 E1G1—D5C3
15 C1D2—C6A5	24 G1F1—E2G3	07 D2D3—G8F6	19 C1B1—A5A3	26 G1F2-H7H5	31 C5D3—E7F6	02 G1F3—D7D6	12 C1C3—E6E5
16 B3B5—A5C4	1-0	08 H5G5—E8G8	20 C3A4—B8B4	27 E3G5-G8F8	32 D3E5—F6E5	03 D2D4—C5D4	13 D4E5—D7E5
17 F1D1—C7C6		09 E4E5—F6D5	21 C4C3—A3C3	28 F2E3—F6E8	33 B1G1—E5G6	04 F3D4—G8F6	14 F3E5—E7E5
18 B5C5—F5F6	14. CONCHESS - ELITE	10 G5E7—D5E7	22 A4C3—E3D4	29 E3D3—F7F5	34 C2C4—H7H5	05 B1C3-B8C6	15 F2F4—E5E4
19 D2C1—B7B6		11 B1D2—A7A6	23 D1D3—D8B8	30 E4F5—C8F5	35 G1F1—G5G4	06 C1G5—E7E6	16 D1B3—B7B5
20 C5B4—F6H4	01 E2E4—E7E5	12 B5A4—E7G6	24 B2B3—F7F6	31 G3E4—E8F6	36 E3F4—G4G3	07 D1D2—A7A6	17 C4D3—E4E3
21 B4A4—D8D6	02 G1F3—B8C6	13 F1E1—B7B5	25 B1A2—G8F7	32 G5F6—G7F6	37 E4E5—F6E6	08 E1C1—C8D7	18 G1H1—E3D2
22 E3E4—C8D7	03 D2D4—E5D4	14 A4B3—C8B7	26 C3E2—F7E6	33 D3E3—F8E7	38 B2B3—H5H4	09 F2F4—F8E7	19 C3C2—D2A5
23 A4A6—D7C8	04 F3D4—F8C5 05 C1E3—D8F6	15 D2E4—C5B4	27 F1D1—D4C5	34 G2G3—G6G5	39 A2A3—G3G2	10 D4F3—B7B5	20 C2C6—C8E6
24 A6A4—D6H6 25 H2H3—B6B5	06 C2C3—G8E7	16 C2C3—G6E5	28 A2A1—A7A5	35 E2D3—F5G6	40 F1G1—H3H2	11 G5F6—G7F6	21 B3C2—G7G6
26 A4C2—D5E4	07 F1C4—C6E5	17 C3B4—E5D3	29 E2C1—B4D4	36 E4C5—G6D3	41 F4E4—H4H3	12 F4F5—D8B6	22 C6C5—A5A2
27 F3E4—A7A5	08 B1D2—E5C4	18 E1E2—A8E8	30 C1E2—D4D3	37 C5D3—F6G7	42 E4E3—H2H1	13 F1D3—H8G8	23 D3B5—F8C8
28 E4E5—C8D7	09 D2C4—F6G6	19 E4G3—D3B4	31 D1D3—C5A3	38 E3E4—G7H6	43 E3F2—E6E5 44 C4C5—E5F4	14 H1E1—C6E5	24 C5C3—A8B8
29 G1H1—A8E8	10 D1F3—C5D4	20 C1F4—E8E2 21 G3E2—D4D3	32 E2G3—A3C5	39 E4F5—G5G4 40 F3F4—H6G7	44 C4C5—E5F4 45 G1G2—H3G2	15 F3E5—F6E5	25 C3C8—B8C8
30 A3A4—H4G3	11 C3D4—D7D6	21 G3E2—D4D3 22 E2C3—D7D6	33 G3F5—G7G6	41 F4E5—D6E5	45 G1G2—H3G2 0-1	16 D2E2—E6F5	26 C2E2—C8D8
31 A4B5—C6B5	12 H2H3-C8E6	23 A1D1—B7C8	34 F5E3—C5E3	42 D3C5—E7D6	0-1	17 E4F5—A8C8	27 F1C1—A2D5
32 A1A2—D7G4	13 D4D5—E6D7	24 A2A3—C8G4	35 D3E3—F6F5 36 E4F5—G6F5	43 F5E4—G7H6		18 D3E4—D7C6 19 C1B1—B6C5	28 B5C4—D5D2 29 E2D2—D8D2
33 C2D3—G3D3	14 E1G1—E8G8	25 F2F3—G4E6	37 E3C3—E6D7	44 C5A6—H6C1	19. ELITE · SC9	20 E4C6—C8C6	30 C4E6—F7E6
34 D1D3—G4F5	15 A1C1—A8E8	26 B3E6—F7E6	38 C3D3—E5E4	45 A6C5-C1D2	01 E2E4—C7C5	21 F5F6—E7F8	31 B2B3—D2D3
35 D3D1—E8D8	16 C4D2—C7C5	27 F4D6—C7D6	39 D3E3—D6D5	46 C5B7-D6C7	02 G1F3—D7D6	22 C3E4—C5B4	32 B3B4—D3D4
36 F4D3—H6G6	17 D2C4—B7B5	28 A3B4—D6D5	40 E3E2—B8E8	47 B7A5-D2C1	03 D2D4—C7D4	23 G2G3—A6A5	33 G2G3—D4B4
37 D3F4—G6A6	18 C4D2—F7F5	29 D1D3—F8F4	41 F3F4—H7H5	48 E4E5—C1A3	04 F3D4—G8F6	24 E2D3—G8G6	34 C1C8—G8F7
38 D1F1—D8E8	19 E3C5—D6C5	30 C3A2—F4C4	42 G2G3-D5D4	49 A5C6—A3B2	05 B1C3-A7A6	25 D3D5—B4C4	35 C8C7—H7H5
39 F4D5—F5D3	20 C1C5—F5E4	31 D3E3—G8F7	43 A1B1—C6C5	50 E5E6—B2C3	06 C1G5—E7E6	26 D5C4—B5C4	36 C7A7—H7H5
40 F1F2—A6A7 41 C1A3—C4A3	21 F3E4—F8F5	32 E3A3—C4C2	44 B1C1—D7C6	51 C6A7—C7B6	07 F2F4—F8E7	27 D1D5—C6A6	37 A7G7—E6E5
41 C1A3—C4A3 42 A2A3—A5A4	22 D2F3—E7D5 23 E4G4—G6A6	33 A3A6—C2B2	45 E2G2—E4E3	52 D5D6—C3D2	08 D1F3—D8C7	28 E1D1—G6G4	38 F4E5—B4E4
43 D5F4—D3C4	23 E4G4—G6A6 24 A2A3—D5F6	34 A2C3—B2B4	46 C1D1—C6D5	53 A7C8—B6C6	09 E1C1—B8D7	29 E4D6—F8D6	39 G7G6—E4E5
44 F2D2—F7F6	25 G4B4—F5C5	35 A6A7—F7F6	47 G2E2—D5E4	54 D6D7—D2G5	10 G2G4—B7B5	30 D5D6—A6D6	40 G6G7—E8F8
45 E5F6—E8E1	26 B4C5—E8E2	36 A7B7—D5D4	48 C2C3—D4C3	55 C8A7—C6B6 56 A7C8—B6C6	11 G5F6—D7F6	31 D1D6—G4E4	41 G7B7—F8G8
46 H1H2—A7F7	27 F1B1—A6B7	37 B7B5—B4B5 38 C3B5—F6E5	49 E2A2—E4D3	57 C8D6—G5D8	12 G4G5—F6D7	32 C2C3—E4E2	42 H2H3—E5E1
47 F4H5-G7G6	28 C5C3-B7E4	38 C3B5—F6E5 39 G1F2—E5D5	50 A2A3—C3C2	58 D6F7—D8B6	13 A2A3—E8G8	33 D6C6—E2H2	43 H1G2—E1F2
48 H5F4—F7F6	29 B1D1—E4C2	40 B5C7—D5E5	51 D1C1—E3E2 52 B3B4—D3C4	59 D7D8—B6D8	14 H2H4—C8B7 15 F1E2—F8C8	34 C6C4—H2H1 35 B1C2—E8D7	44 G2F3—E2C2 45 G3G4—H5G4
49 F4D3—C4D3	30 C3C2—E2C2	41 F3F4—E5F5	53 C1C2—E2E1	1-0	16 H1G1—D7B6	36 C4C5—D7E6	46 H3G4—C2C3
50 D2D3—F6F2	31 F3E5—D7E8	42 G2G4—F5F6	54 A3E3—E8E3	, -	17 H4H5—D6D5	37 C5A5—E6F6	47 F3F4—C3C2
51 D4D5—E1E2	32 B2B4-C2C4	43 F2F3—H7H5	55 C2B2—E3E2		18 D1D3—E7C5	38 A5A6—F6F5	48 F4F5—C2C5
52 D3G3—E2D2	33 D1A1—F6H5	44 G4H5—D4D3	56 B2A3—E1B4	18. SC9 - ELITE	19 E4E5—B6C4	39 G3G4—F5G4	49 F5G6—C5C6
53 C3C4—B5C4	34 G2G3—G8F8	45 F3E3—E6E5	0-1	01 E2E4—E7E5	20 G1G3—C7B6	40 A6F6—E5E4	50 G6H5—C6C2
54 A3A4—D2D5	35 G1H2—A7A6	46 F4E5—F6E5	- '	02 G1F3—B8C6	21 F3F2—A6A5	41 F6F7—H1H2	51 G4G5—G8F8
55 A4C4—D5D2	36 H2G1—F8E7	47 C7E8—E5F5	45 51 175 000	03 F1B5—A7A6	22 D3D1—B5B4	42 C2B3—E4E3	52 G5G6—C2H2
1/2-1/2	37 E5G4—E8D7	48 H2H4—F5E6	17. ELITE - SC9	04 B5C6-D7C6	23 C3A4—C5D4	43 F7E7—E3E2	53 H5G5—H2G2
	38 G4E3—E7D6	49 E8G7—E6F6	01 D2D4—G8F6	05 E1G1—F7F6	24 F2D4—C4A3	44 A2A4—H7H5	54 G5F6—G2F2
12 ELITE CONCUESS	39 G1H2—C3D3	50 H5H6—D3D2	02 C2C4—G7G6	06 D2D4—C8G4	25 B2A3—B6C6	45 B3A3—G4F3	55 F6E6—F2E2
13. ELITE - CONCHESS	40 A1D1—D3D1 41 E3D1—D7C6	51 E3D2—F6F7	03 B1C3—F8G7	07 D4E5—D8D1	26 A4C3—B4C3	46 A3B3—H5H4	56 E6F6—E2F2
01 D2D4—D7D5	42 D1E3—D6E5	1-0	04 E2E4—D7D6	08 F1D1—G4F3	27 G5G6—F7G6	47 E7F7—F3E3	57 F6G5—E2F2
02 C2C4—E7E6	43 F2F4—E5E4		05 F2F3—E8 G 8	09 G2F3—F6E5	28 H5 G 6—H7H6	48 F7E7—E3F2	58 G5F5—G2F2
03 B1C3—C7C5 04 C4D5—E6D5	44 E3G4—H5F6		06 C1E3—E7E5	10 F3F4—G8F6	29 E2G4—C6E8	49 E7F7—F2G1	59 F5G4—F2G2
04 G4D0—E0D0			07 D4D5—C7C6	11 B1C3—F8D6	30 D4B6—B7C6	50 F7E7—H4H3	60 G4H5—G2H2
	76	6		12 F4E5—D6E5	31 G3C3—E8G6	51 A4A5—H2F2	61 H5G4—H2G2

62 G4F5—G2F2	59 G1F2—E6E5	54 F2E3—F5H3	25. ELITE · SC9	02 B1C3—B8C6	20 F3D4—E7C5	08 G1E2—C6D5	24 D3C4—1/2-1/2
63 F5E5—F2G2	60 F2E2—E5D5	55 B6A4—E6G7		03 G2G3—G7G6	21 C1E3—C5D4	09 C4D5—B8D7	
64 B7F7—F8G8	61 E2D3—D5C5	56 E3D2—G7F5	01 D2D4—G8F6 02 C2C4—E7E6	04 F1G2—F8G7	22 E3D4—B7C8	10 D1D2—A7A6	
65 E5F6—G2F2	62 D3E4—A3B2	57 H4H5—G6H5	03 B1C3—F8B4	05 G1F3—G8F6	23 E2C2—C4A4	11 E2G3—B7B5	30. ELITE · PRESTIGE
66 F6E7—F2G2	63 D2H6—B2C3	58 B2B4—H5G4	04 E2E3—E8G8	06 E1G1—E8G8	24 C2C6—A4D1	12 F1D3—D7B6	01 E2E4—C7C5
67 F7F6—G8G7	64 H6F8—C5B6	59 B4B5—H7H5	05 G1F3—D7D5	07 D2D4—C5D4	25 A1D1—A5C6	13 D2F2—B6C4	02 G1F3—D7D6
1/2 - 1/2	65 E4D3—H7H5	60 B5B6—H3G2		08 F3D4—C6D4	26 F5C8—F8C8	14 D3C4—B5C4	03 D2D4—C5D4
72 72	66 D3C4—B6A5	61 A4C5—F5D6	06 F1D3—C7C5	09 D1D4—D7D6	27 D1C1—G8F8	15 E3B6—D8E7	04 F3D4—G8F6
	67 F8C5—G6G5	62 C4D4—D6B7	07 E1G1—B8C6	10 D4D3—A7A6	28 C1C5—C6E7	16 B6E3—H7H5	05 B1C3—B8C6
22. SC9 · ELITE	68 C5D4—C3D4	63 C5B7—G2B7	08 A2A3—B4C3 09 B2C3—D5C4	11 C1D2—A8B8	29 C5C8—E7C8	17 E1G1—H5H4	06 C1G5—E7E6
01 D2D4—G8F6	1-0	64 D4D7—B7C6	10 D3C4—D8C7	12 E2E4—C8E6	30 G1F2—C8E7	18 G3E2—H4H3	07 D1D2—A7A6
02 C2C4—G7G6		65 D7D6—C6H1	11 C4A2—E6E5	13 D2E3—F6G4	31 D4C5—F8E8	19 G2G4—A8B8	08 E1C1—C8D7
03 B1C3—F8G7		66 D6F6—H5H4	12 H2H3—E5E4	14 E3D4—B8C8	32 F2E3—E7C6	20 A1B1—B8B4	09 F2F4—F8E7
04 E2E4—D7D6	23. ELITE - SC9	67 F4F5—H4H3	13 F3H2—F8D8	15 D4G7—G8G7	33 C5D6—E8D7	21 F2G3—E8B7	10 D4F3—B7B5
05 G1F3—E8G8	01 E2E4—E7E5	68 F6H6-G4G3	14 A1B1—C8F5	16 B2B3—G7G8	34 D6F8—G7G6	22 C3D1—C8D7	11 G5F6—G7F6
06 F1E2—E7E5	02 G1F3—B8C6	69 F5F6—H1D5	15 C1D2—B7B6	17 D3D4—G4E5	35 F8G7—D7E6	23 G3H3—D7A4	12 F4F5—D8B6
07 E1G1—B8C6	03 F1B5—A7A6	70 F6F7—D5F7	16 A2B3—C6A5	18 D4A7—D8A5	36 E3F4—C6B4	24 E2C3—A4C2	13 D2H6—B5B4
08 D4D5—C6E7	04 B5A4—G8F6	1-0	17 B3A2—C7D6	19 C3D5—E6D5	37 F4E3—B4A2	25 B1C1—C2D3	14 C3A4—B6A5
09 F3E1—F6D7	05 E1G1—F8E7		18 D2C1—A8C8	20 C4D5—A5B5	38 E3D3—A2B4	26 F1F2—B7D7	15 B2B3—C6E5
10 F2F3—F7F5	06 F1E1—B7B5		19 C1B2—F5D7	21 F1C1—E7E6	39 D3D4—B4C2	27 E3H6—F8B8	16 F3E5—A5E5
11 E1D3—F5F4	07 A4B3—E8G8	24. SC9 · ELITE	20 B1C1—B6B5	22 C1D1—F8D8	40 D4D3—C2E1	28 H6G7—G8G7	17 F5E6—F7E6
12 C1D2—D7F6	08 C2C3—D7D6	01 E2E4—E7E5	21 G1H1—D8E8	23 A1C1—E6D5	41 D3E2—E1C2	29 H3H4—B8H8	18 H6G7—H8F8
13 D2E1—C8D7	09 H2H3—C6A5	02 G1F3—B8C6	22 D4C5—D6D1	24 E4D5—D8E8	42 E2D3—C2A1	30 H4G5—F6H7	19 G7H7—D7A4
14 E1F2—G8H8	10 B3C2—C7C5	03 F1B5—A7A6	23 C1D1—C8C5	25 A7E3—C8C1	43 B2B4—A1B3	31 G5D2—F7F6	20 B3A4—E5A1
15 A1C1—D8C8	11 D2D4—D8C7	04 B5A4—G8F6	24 D1D6—A5C4	26 E3C1—B5E2	44 G7H6—A6A5	32 H2H4—H8B8	21 C1D2—A1A2
16 G1H1—C8E8	12 B1D2—C5D4	05 E1G1—F8E7	25 A2C4—C5C4	27 D1D2—E5F3	45 B4A5—B3A5	33 B2B3—F6F5	22 H7H5—E8D7
17 C4C5—H8G8	13 C3D4—C8E6	06 F1E1—B7B5	26 F1D1—D7E6	28 G2F3—E2F3	46 D3D4—B5B4	34 G4F5—G6F5	23 H5A5—A2A3
18 D1B3—B7B6	14 D2B3—A5C4	07 A4B3—E8G8	27 H2F1—C4C5	29 C1F1—B7B6	47 D4D3—E6E5	35 F2G2—G7H8 36 D1B2—F5E4	24 D1B1—E7D8
19 C5C6—D7C8	15 F3G5—E6D7	08 C2C3—D7D6	28 F1G3—E6B3	30 H2H3—B6B5	48 H6F4—E5E6	36 D1B2—F5E4 37 F3E4—D3E4	25 A5B4—A3B4
20 D3E5—D6E5	16 C2D3—A8C8	09 H2H3—C6A5	29 D1D2—B3C4	31 G1H2—F3F5	49 D3C2—B4B3 50 C2B2—E6D7		26 B1B4—D8A5
21 D5D6—G8H8	17 A1B1—A6A5	10 B3C2—C7C5	30 D2D4—C5E5	32 A2A4—E8E3		38 C3E4—C4B3	27 C2C3—A5B4
22 D6E7—E8E7	18 G5F3—D7C6	11 D2D4—D8C7	31 A3A4—C4E6	33 A4B5—E3G3	51 F4G5—D5D4 52 G5F6—D4D3	39 D2E3—B3A2 40 B2D3—B4A4	28 C3B4—F6F5
23 C1D1—C8E6	19 C1G5—C7B6	12 B1D2—C5D4	32 D6D8—E6C4	34 H2G3—F5G5	53 B2C3—D7E6	41 D3E5—D6E5	29 E4F5—F8F5
24 B3A4—A7A6	20 D3C4-B5C4	13 C3D4—C8B7	33 A4B5—E8D8	35 G3H2—G5F4 36 H2G1—F4G5	54 F6G5—E6F5	42 E4C3—A2A1 = Q	30 B4B5—A8F8
25 A4C2—E7E8	21 B3D2—B6B5	14 E1E3—E5D4	34 D4D8—E5E8	36 H2G1—F4G3 37 F1G2—G5D2	55 G5D8—A5C4	43 E3E5—H7F6	OI DELI-AUDO
26 C3D5—E6D5	22 F3H4-C6D7	15 F3D4—D6D5	35 D8E8—F6E8	38 B5A6—D2D1	56 C3D3—F5E5	44 E5F6—H8H7	32 A4B5—F8A8 33 G2G4—A8A1
27 E4D5—A8D8 28 D5D6—D8D6	23 D2F3—C8B8	16 E4E5—E7C5	36 G3E4-C4B5	39 G2F1—D1B3	57 D3C3—B3B2	45 F6G6—H7H8	34 E2E1—F5B5
29 D1D6—C7D6	24 D4E5-D6E5	17 E5F6—C5D4	37 E4D2—B5D3	40 F1C1—B3D5	58 C3C2—H7H5	46 G6H6—D7H7	35 H2H4—E6E5
30 E2A6—E8A8	25 A2A4—B5A4	18 F6G7—D4G7	38 C3C4—A7A5	41 C1C8—G8G7	59 D8E7—H5H4	47 H6F6—H7G7	36 G4G5—B5B2
31 C2C4—D6D5	26 F3E5—A4D1	19 C2D3—A8E8	39 C4C5—G8F8	42 A6A7—D5G5	60 E7H4—F7F6	48 F6G7—1-0	37 E2F3—D7E7
32 C4B5—F6E8	27 E1D1—D7B5	20 D1H5—E8E4	40 D2F3—A5A4	43 G1H1—G5D5	61 G3G4—F6F5		38 G5G6—A1A3
33 B5B6—F8F7	28 H4F5—F8E8	21 D2E4—D5E4	41 C5C6—F8E7	44 H1G1—D5G5	62 G4F5—G6F5		39 F3G4—E7F6
34 F1A1—E8C7	29 E5G4—E7D8	22 D3E4—B7E4	42 F3G5—D3B5	45 G1H1—G5D5	63 G2G3—E5E4	M DESTINE FLITE	40 G4H5—B2B8
35 A6D3—H8G8	30 G5F4—B8B6	23 E3E4—C7D6	43 B2A3—E7F6	46 H1G1—D5G5	64 H4G5—E4F3	29. PRESTIGE - ELITE	41 F1E2—B8H8
36 B6B7—A8D8	31 F5D6—B6D6	24 H5E2—A5C4	44 G5H7—F6G6	1/2 - 1/2	65 G5F4—F3E4	01 E2E4—E7E5	42 H5G4—F6G6
37 F2B6—G7F8	32 D1D6—F6E4	25 E4E8—G7E5	45 H7F8—G6F5		66 H3H4—E4D5	02 F2F4—E5F4	43 H4H5-G6H6
38 A1C1-F8D6	33 D6D5—B5C6	26 E2G4—G8H8	46 F2F3—B5C6	27 DESTICE FLITE	67 F4H6—D5E4	03 G1F3—G7G5	44 H1D1—H8D8
39 B6A5—F7F8	34 D5E5—E8F8	27 E8F8—D6F8	47 E3E4—F5E5	27. PRESTIGE · ELITE	68 H4H5—E4D5	04 H2H4—G5G4	45 G4F5—D6D5
40 B7B3—D8B8	35 F2F3—D8B6	28 G4E2—F8G7	48 A3B2—E5D6	01 E2E4—E7E5	69 $H6G7 - B2B1 = N$	05 F3E5—G8F8	46 D1B1—E5E4
41 A5B6—G8H8	36 F4E3—E4D2	29 E2F3—C4B2	49 B2A3—D6E5	02 G1F3—B8C6	70 H5H6—B1A3	06 D2D4—D7D6	47 B1B6—H6G7
42 D3C2—C7A8	37 B1D1—F8D8	30 A1B1—B2C4	50 H3H4—E5D4	03 F1B5—A7A6	71 C2B3—C4D6	07 E5D3—F6E4	48 B6B7—G7H8
43 B6F2—A8C7	38 D1E1—B6E3	31 F3A8—G7G8	51 H4H5—D4C4	04 B5A4—G8F6	72 H6H7—D6F7	08 C1F4—D8E7	49 H5H6—A3H3
44 B3B8—F8B8	39 E1E3—D2B3	32 A8A6—G8D8	52 G2G4—C4B3	05 E1G1—F8E7	73 B3A3—D5E4	09 D1E2—F8G7	50 B7B6—H8H7
45 B2B3—D6A3	40 E5E7—G8F8	33 C1H6—C4D6	53 A3C5—A4A3	06 F1E1—B7B5	74 H7H8—F7H8	10 C2C3—H7H5	51 B6B7—H7H6
46 C1E1—B8E8	41 E7C7—C6D5	34 B1D1—D8E8	54 C5D4—A3A2 55 G4G5—F7F5	07 A4B3—E8G8	75 G7H8—F5F4	11 B1D2—E4D2 12 E2E7—E8E7	52 B7B6—H6G7
47 F2B6—E8E7	42 E3E7—A5A4	35 F2F4—E5F4		08 C2C3—D7D6	76 G3F4—E4F4	13 F4G5—E7E8	53 B6B7—G7H8
48 E1B1—C7A6	43 F3F4—B3D4	36 H6F4—D6E4	56 G5F6—G7F6 57 H5H6—B3C4	09 H2H3—C6A5	1/2 - 1/2	14 E1D2—C8E6	54 E2G4—H3C3
49 C2D3—A6B4	44 G4E5—F7F6	37 D1D5—F7F6	57 H5H6—B3C4 58 F8E6—E8D6	10 B3C2—C7C5		15 D3F4—E8F8	55 F5G6—D8G8
50 D3B5—B4C6	45 E7D7—D8D7 46 E5D7—F8G8	38 D5B5—H8G7 39 B5B8—E4C5	59 H6H7—D6F7	11 D2D4—D8C7 12 B1D2—C5D4	28 ELITE DESCRICE	16 F4E6—F7E6	56 G6H5—C3C2
51 B5C6—E7E6	47 G1F2—D4E6	39 B5B8—E4C5 40 A6A7—E8F7	60 D4F6—C6A4	13 C3D4—C8B7	28. ELITE · PRESTIGE	17 F1D3—B8C6	57 G4H3—D5D4
52 B6C7—E6C6	48 C7C8—G8F7	40 AGA7—EGF7 41 A7C5—F7A2	61 E6G5—A2A1	14 D2F1—A8C8	01 D2D4—G8F6	18 H1F1—F8G8	58 H5H6—C2C6
53 C7E5—H8G8	49 G2G3—G7G5	41 A705—F7A2 42 C5H5—A2A7	1-0	15 E1E2—D6D5	02 C2C4—G7G6	19 A1E1—E6E5	59 H6H5—C6C5
54 E5F4—G8F7	50 D7B6—D5E4	43 G1H2—A7B8	. 0	16 D4E5—F6E4	03 B1C3—F8G7	20 D3C4—G8H7	60 H5H6—G8E8
55 B1D1—F7E6	51 C8C4—E4F5	43 GIRZ—A760 1-0		17 F1G3—E4G3	04 E2E4—D7D6	21 C4D3—H7G8	61 B7H7—H8G8
56 H1G1—C6C2	52 H3H4—G5H4	1-0	26. SC9 - ELITE	18 F2G3—C7C4	05 F2F3—E8G8	22 D3C4—G8H7	62 H3D7—E8E5
57 D1D2—C2D2	53 G3H4—F7G6		01 C2C4—C7C5	19 C2F5—C8C6	06 C1E3—E7E5 07 D4D5—C7C6	23 C4D3—H7G8	63 H7G7—G8F8
58 F2D2—D5D4			01 0204-0700	.0 ==.0 0003	07 D4D5—C7C6		64 D7G4—D4D3

				20 A1E1-D8D2	30 G4H5-E8E5	07 C4D5—F6D5	20 D1D3—C4B2
65 G7D7—C5D5	04 E4E5—F6E4	06 B2B3—E7E5	19 G2F3—A8D8	21 B2B4—D2D3	31 F5G4-A6C8	08 D1D2—F8B4	21 D3C3—B2A4
66 D7B7—E4E3	05 D1D4—D7D5	07 D4E5—F6D7	20 B3A4—B6G6	22 C3E4-C6E4	32 G4F3—C8H3	09 A1C1—F7F6	22 C3B4—B7B5
67 B7B8—F8E7	06 E5D6—E4D6	08 C1B2—B8C6	21 G1H1-G6H5	23 E1E4—D3A3	33 B3B4—E5E4	10 G4H4—G7G5	23 B8A7—F6G5
68 B8B7—E7D6	07 B1C3—B8C6	09 E2E4—D6E5	22 C2C3-D8D2	24 F1D1—A3A4	34 B4A5—H3F1	11 H4G3—G5G4	24 D4D5—C8D7
69 B7D7—D6C5	08 D4F4—G7G6	10 B1C3-B7B6	23 C3D2—H5F3	25 E4D4—G5E5	35 G1F1—C7D7	12 F3H4-D7B6	25 D5D6—E8C8
70 D7C7—C5B6	09 F1D3—F8G7	11 C3D5—F8E8	24 H1G1—A5C4	26 D4G4—E5D5	36 F3G2—D7E6	13 E3E4—D5C3	26 F3F4—G5H5
71 C7G7—E3E2	10 E1G1—E8G8	12 D1D2—D7C5	25 D2E2—F3E2	27 D1E1—D5D2	37 H5E2—E4E2	14 B2C3—B4E7	27 A1C1—C8C1
0-1	11 C1E3—C8F5	13 F1E1—C8G4	26 E1E2—F8D8	28 G4G8—E8D7	38 G2F3—E2E1	15 F1E2—E6E5	28 F1C1—F7F5
	12 D3F5—D6F5	14 C2C4—G4F3	27 A1D1—D8D4	29 G8G7—D7E7	39 F1G2—E6C4	16 D4E5—F6E5	29 C1C7—H5E8
	13 A1D1—D8C8	15 G2F3—C6D4	28 A4B3—C4A5	30 B4B5—E6E5	40 H2H4—E1D1	17 D2H6—C8D7	30 C7B7—F5E4
31. PRESTIGE - ELITE	14 E3C5—F8E8	16 B2D4—E5D4	29 B3C2—C7C5		41 F3D1—C4C1	18 H4G6—E7F8	31 B7B8—D7C8
01 E2E4—C7C5	15 C3D5—C6E5	17 B3B4—C5D7	30 F2F3—A5C4	31 E1C1—A4C4		19 H6H5—H7G6	32 B4E4—G8F7
02 G1F3-D7D6	16 F3D4—F5D4	18 F3G2—C7C6	31 C2D3—E7H4	32 C1A1—C4D4	0-1	20 H5H8—A5A2	33 E4A8—E8D7
03 D2D4—C5D4	17 C5D4—C7C6	19 D5F4—D7E5	32 G1F1—B7B5	33 H2H3—D2D1		21 H8E5—F8E7	34 B8C8—D7D6
04 F3D4—G8F6	18 D5F6—G7F6	20 C4C5—D8E7	33 F1G1—C4B6	34 A1D1—D4D1	AT MEDIUSTO COS	22 E5H8—E7F8	35 A8B7—F7F6
05 B1C3—B8C6	19 F4F6—C8E6	21 E1C1—A8D8	34 D3C2—A6A5	35 G1H2—D1D5	37. MEPHISTO - SC9	23 G3D6—A2F7	36 B7B5—D6D1
06 C1G5—E7E6		22 F4D3—G7H6		36 H2G3—D5B5	01 E2E4—E7E5		37 G1G2—D1D5
07 D1D2—A7A6		23 F2F4—E5D3	35 G1G2—A5A4	37 H3H4—C7C5	02 G1F3—B8C6	24 C1D1—E8C8	38 B5D5—E6D5
08 E1C1—C8D7	21 F1E1—A8E8		36 G2H3—H4G5	38 H4H5—C5C4	03 F1B5—A7A6	25 H8E5—D8E8	1-0
09 F2F4—F8E7	22 G1F1—E5C4	24 D2D3—E7D7	37 H3G4—G5F4	39 H5H6—C4C3	04 B5A4—G8F6	26 E5A5—F8D6	1-0
10 D4F3—B7B5	23 E1E6—F7E6	25 E4E5—B6B5	38 G4H4—B6C4	40 H6H7—C3C2	05 E1G1—F8E7	27 D1D6—E8E4	
11 G5F6—G7F6	24 B2B3—C4B6	26 C1F1—H6G7	39 D1D4—C5D4	41 H7H8—B5B3	06 F1E1—B7B5	28 A5A7—E4E2	40 CCO MEDILICTO
12 F4F5—D8B6	25 D4B6—A7B6	27 A2A4—A7A6	40 C2D3—C4D2	42 G3H2—C2C1	07 A4B3—E8G8	29 E1E2—F7E7	40. SC9 · MEPHISTO
13 F5E6—F7E6	26 D1D7—B6B5	28 A4B5—A6B5	41 H4G4—G7G6	43 H8H4—E7E6	08 D2D4—E5D4	30 E2F1—E7D6	01 E2E4—E7E5
	27 D7B7—E8A8	29 A1A6—D8C8	42 E2F2—H7H5	44 F2F3—B3B2	09 E4E5—F6G4	31 A7A1—D6D3	02 G1F3—B8C6
	28 B7C7—H7H6	30 F1A1—C8C7	43 G4H3—F4E3	45 H4H3—E6F6	10 H2H3—G4H6	32 F1G1—B6A4	03 F1B5—A7A6
15 C3E2—E6E5	29 C7C6—G8F7	31 A6A8—E8C8	44 F2E2—D2F3	46 H3H7—C1F4	11 C1H6—G7H6	33 C3C4—D3E4	04 B5C6—D7C6
16 D2H6—D7E6	30 C2C4—B5C4	32 A1A2—G8F8	45 H3G2—F3D2	47 H2H3—F6E6	12 F3D4—C6A5	34 A1H8—C8C7	05 E1G1—C8G4
17 E2C1—E8C8	31 B3B4—A8A2	33 A8C8—C7C8	46 D3B5—D2E4	48 H7H5—B2B1	13 D1G4-E7G5	35 H8A1—C6C5	06 D2D3—F8D6
18 F1D3—D8G8	32 C6C4—A2B2	34 A2D2—F7F6	47 B5A4—F7F5	49 H5G4—F4G4	14 F2F4—D7D5	36 A1F1—A4C3	07 C1E3—G8F6
19 H6D2—G8G4	33 C4C7—F7E8	35 D3E4—F6E5	48 B2B4—E4C3	50 H3G4—B7B5	15 G4G3—A5B3	37 F2F3—E4D4	08 B1C3—E8G8
20 H2H3—G4G3	34 C7B7—B2B1	36 F4E5—D7C7	49 A4B3—G8G7	51 G7G8—A7A5	16 A2B3—C7C5	38 F1F2—D4C4	09 A1C1—B7B6
21 F3H4—H8G8	35 F1E2—B1B2	37 D2E2—F8G8	50 E2C2—E5E4	52 G8E8—E6F6	17 D4F3—C8F5	39 F2G3—C7C8	10 G1H1—D6E7
22 D2H6—G3G7	36 E2E3—B2B3	38 G2F3—C7F7	51 A3A4—F5F4	53 E8A8—B1B4	18 C2C3—F7F6	40 G3D6—C4D4	11 H2H3—G4F3
23 G2G4—C6D4	37 E2D2—B3B2	39 E5E6—F7E7	52 B4B5—F4F3	54 G4G3—A5A4	19 E5F6—F8F6	41 D6D4—C5D4	12 D1F3-D8D6
24 C1E2—B6A5	38 D2E1—B2B1	40 E2A2—E7B7	53 G2F1—E3F4	0-1	20 F4G5—F6G6	42 G1F2—B7B5	13 F3F5—G7G6
25 B2B3—D4B5	39 E1D2—B1B2	41 E6E7—C8E8	54 C2F2—D4D3		21 G3F2—D8F8	43 F3F4—B5B4	14 F5F3—D6B4
26 G4G5—G7G5	40 D2C3—B2F2	42 E4E6—G8H8	55 B3C2—D3D2		22 E1E5—H6G5	44 H1A1—B4B3	15 E3H6—F8D8
27 H6H7—G8G7	41 B7H7—H6H5	43 F3C6—B7E7	56 F2D2—F4D2	36. SC9 - MEPHISTO	23 F2D2—D5D4	45 A1A8—C8B7	16 C1B1—A6A5
28 H7H6—D6D5	42 G2G3—E8F8	44 E6E7—E8E7	57 C2E4—C3E4	01 E2E4—C7C5	24 C3D4—A8C8	46 A8D8—B7C7	17 F1E1—A5A4
29 E4D5—B5A3	43 H7H8—F8E7	45 A2A8—G7F8	58 A4A5—F3F2	02 G1F3—E7E6	25 D4D5—F8F6	47 D8A8—B3B2	18 A2A3—B4C5
30 B1B2—E6D5	44 H8G8-E7F7	46 A8F8—H8G7	59 B5B6—D2E1	03 D2D4—C5D4	26 D5D6—G5G4	48 A8A7—C7C6	19 B1D1—A8A5
31 H1H2—G7G8	45 G8D8—F2H2	47 F8D8—E7E6	60 F1E2—E4D2	04 F3D4—G8F6	27 E5F5—F6F5	49 A7A6—C6C5	20 H6E3—C5D6
32 D3A6—C8C7	46 D8D7—F7F8	48 C6B5—E6E4	61 E2D1—F2F1 = Q	05 B1D2—B8C6	28 F3H4—F5E4	50 A6A5—C3B5	21 D3D4—D8E8
33 A6D3—E5E4	47 D7D8—F8E7	49 B5D3—E4E1	62 A5A6—D2F3	06 D4C6-B7C6	29 H4G6—E4G6	51 A5A2—B2B1	22 D4E5—D6E5
34 H6H7—G5G7	48 D8D3—H2H1	50 G1G2—G7F6	63 D1C2-F1E2	07 F1E2—F8D6	30 D2D5—G8H8	0-1	23 E3F4—E5C5
35 H7F5—G7G5	49 B4B5—H1B1	51 D8D4—E1C1	0-1	08 E1G1-D8C7	31 D5E5—G6G7		24 F4C7—A5A8
36 F5H7—G8G7	50 C3C4—E6E5	1-0		09 G2G3—C8B7	32 E5G7—H8G7		25 F3F4—F6H5
37 H7H6—D5G8	51 C4C5—E7F6			10 D2C4—D6E7	33 A1A6—G4H3	39. MEPHISTO · SC9	26 F4E3—B6B5
38 D3E4—A5E5	52 B5B6—E5E4		35. MEPHISTO - SC9	11 C1F4—C7C8	34 G2H3—C8G8	01 D2D4—G8F6	27 D1D7—H5F6
39 E2D4—E5H2	53 D3D4—E4E3	34. ELITE - PRESTIGE	01 D2D4—D7D5	12 C4D2—E8G8		02 C2C4—E7E6	28 D7D4—C5A7
40 H4F3—H2G3	54 D4E4—B1B3	01 E2E4—E7E5	02 C2C4—E7E6	13 C2C4—D7D5	35 A6C6—G7F7	03 B1C3—F8B4	29 C7D6—A8D8
41 D4E2—G3F2	55 C5D4—B3B4	02 G1F3—B8C6	03 G1F3-D5C4	14 E2F3-D5D4	36 G1H2—G8E8	04 A2A3—B4C3	30 D6E7—A7E7
42 F3G5—G7G5	56 D4E3—B4B6		04 E2E4—F8B4	15 D1A4—F6D7	37 B1C3—B5B4	05 B2C3—E8G8	31 D4D8—E8D8
43 E4D3—E7D6	Here the com-	03 F1B5—A7A6	05 B1C3—G8F6	16 A4A5—E6E5	38 C6C7—F7E6	06 F2F3—D7D5	32 E3B6—E7E8
44 B2C1—F2E3	puters played 50	04 B5A4—D7D6	06 C1G5—B8C6	17 F4E5—E7D8	39 C3E4—E8D8		33 C3B5—C6B5
45 D1D2—D6F4	moves without cap-	05 C2C3—G8F6	07 E4E5—H7H6	18 A5A3— D7E5	40 C7C5—D8A8	07 E2E3—B8C6	34 B6F6—D8D2
46 C1B2—E3D2	tures or pawn	06 D2D3—C8D7	08 E5F6—H6G5	19 A1D1—D4D3	41 H2G3—A8A2	08 F1D3—D5C4	35 H1G1—D2C2
47 H6G5—F6G5	moves. A draw was	07 E1G1—F8E7	09 F6G7—H8G8	20 F3G2—C8D7	42 C5B5—A2B2	09 D3C4—F6D5	
48 E2F4—D2C3	claimed after move	08 C1E3—F6G4	10 F1C4—G8G7	21 D2F3—E5F3	1-0	10 G1E2—D8H4	36 E1D1—C2C6
49 B2C1—C3E1	1 0 6 1/2 - 1/2	09 A4B3—E8G8	11 C4B5—C8D7	22 G2F3—D3D2		11 G2G3—H4F6	37 D1D8—C6F6 38 D8E8—G8G7
50 C1B2—E1B1	1 0 0 32 - 72	10 F1E1—G4E3	12 A2A3—B4D6	23 A3E3—D8A5	38. SC9 · MEPHISTO	12 E1G1—F5H6	
0-1		11 E1E3—D7G4	13 E1G1—G5G4	24 E3G5—D7C7	01 D2D4—D7D5	13 E3E4—D5C3	39 F2F3—F6E6 40 E8C8—E6E5
5 .	33. PRESTIGE · ELITE	12 B1D2—D8D7	14 B5C6—D7C6	25 F3G4—B7A6	02 C2C4—E7E6	14 E2C3—H6F6	
	01 D2D4—G8F6	13 E3E1—C6A5	15 F3E5—D6E5	26 B2B3—A8D8	03 B1C3—G8F6	15 C3B5—F8D8	
32. ELITE - PRESTIGE	02 G1F3—G7G6	14 D3D4—D7B5	16 D4E5—D8H4	27 A2A3—H7H6	04 C1G5—B8D7	16 C1F4—C6A5	
01 E2E4—E7E5	03 G2G3—F8G7	15 C3C4—B5B4	17 D1D4—A8D8	28 G5H5—F8E8	05 E2E3—C7C6	17 B5C7—A8B8	
02 G1F3—G8F6	04 F1G2—E8G8	16 D4E5—D6E5	18 D4F4—H4G5	29 H5F5—D8D4	06 G1F3—D8A5	18 C7E8—D8E8	44 H3G4—F7F6
03 D2D4—E5D4	05 E1G1—D7D6	17 A2A3—B4B6	19 F4G5—G7G5	20 1.0.0 2024	00 0110 0010	19 F4B8—A5C4	45 C8C7—G7F8
33 222, 2324		18 D1C2—G4F3	10 1405—0705			81	

46 E3D4—F8E8	62 E6G7—B5B4	21 CACE DECE	04 0450 5007		12 G1H1—C8E6	07 D1D3—F6E4	30 C3F6—G7F6	22 F1F2-D4F2
47 C7C5—B5B4	63 G7H5—B4B3	31 C4C5—D6C5	04 G1F3—F8G7			08 D3E4—F7F5	31 H1H3—F5F4	23 G1F2—B4H4
48 C5G5—F6G5	64 H5F6—B6C5	32 F1F5—B6D7 33 F5F2—D7F6	05 D2D3—E8G8			09 E4E5—E8G8	32 B4C3—B7G7	24 F2E2—H4G4
49 A3B4—E8D7	65 F6E4—C5C4	21. 1 -11	06 F1G2—D7D5		14 D2D3—F2C5	10 C1D2—E7F6	33 G2G3—F4E3	25 E2E1—G4G3
1-0	66 E4D6—C4B4		07 C4D5—F6D5		15 C1E3—C5E7		34 F2E3—E4F5	26 E1F1—C6D5
1-0	67 D6F5—B3B2	35 F2F1—A8F8	08 C3D5D8D5		16 D1B1—B7B5	11 E5C5—B8C6	35 G3G4—F5G4	27 D2F3—E5E4
44 MEDUISTO SCO	68 F5D4—B2B1	36 F1C1—F6H7	09 E1G1—B8C6		17 C4A5—E7E8	12 D2C3—D8D7	36 H3G3—D8C8	28 F3G1—D5D4
41. MEPHISTO · SC9		37 G1H1—E7G5	10 F3G5—D5E5		18 E4E5—F7F6	13 E1C1—B7B6		29 B3D5—G3F4
01 E2E4—C7C5	0-1	38 G3G5—H7G5	11 G2C6—B7C6	7	19 E5E4—F6F5	14 C5B5—C8B7	37 C3B4—H7H5	30 A2F2—F4E3
02 B1C3—B8C6		39 C1D1—F8H8	12 E2E4—F8D8		20 E4E5—H7H6	15 H2H3—D7D6	38 B4D4—C8D8	31 D5B7—A8A5
03 F2F4—D7D6	42. SC9 — MEPHISTO	40 D1D3—G7F6	13 A1B1—C5C4		21 B1E1—E8D7	16 D4D5—F8D8	39 D4B6—G7E7	32 G1E2—F8D8
04 F1B5—C8D7	01 E2E4—E7E5	41 D3G3—H8H7	14 D1F3—F7F6		22 E5C5—E6D5	17 C3F6—G7F6	40 A1D1—D8D1	
05 G1F3—G8F6	02 G1F3—B8C6	42 E2F3—B7B6	15 D3D4—E5B5		23 C3C4—F5F4	18 E2C3—D6F4	41 E1D1—E8D8	33 D1B1—D403
06 E1G1—C6D4	03 F1B5—A7A6	43 F3E2—H7H4	16 G5H7—C8H3		24 E3F4—H8E8	19 C1B1—E6D5	42 F3D4—D8D6	34 E2C3—D3D2
07 B5D7—D8D7	04 B5A4—G8F6	44 E2D3—C5C4	17 F1D1—F6F5		25 E1B4—D5F3	20 C3D5—F4F2	43 B6C5—E7E5	35 C3D1—E3E1
08 D2D3—F6G4	05 E1G1—F8E7	45 D3C2—H4H7	18 F3F4—H3G4		26 C4B5—E8E2	21 F1C4—G8G7	44 C5E5—F6E5	36 F1G2—A5G5
09 F4F5—D4B5	06 F1E1—B7B5	46 C3B1—G5F7	19 F2F3—E7E5		27 B5A6—F3G2	22 D5C7—A7A6	45 E2G4—H5G4	37 G2H3—E1H1
10 F3G5—B5C3	07 A4B3—D7D6	47 B1D2—F7D6	20 F4E3—D8D4		28 H1G1—D7G4	23 B5A4—B6B5	46 G3G4—B5B4	38 F2H2—H1F3
11 D1G4—C3A4	08 D2D3—E8G8	48 G3F3—F6E7	21 D1D4—E5D4		29 B4B7—C8D7	24 C7B5—A6B5	47 D1C2—E5D4	39 H3H4—F3G3
12 G4H5—G7G6	09 B1C3—B5B4	49 F3C3—H7H4	22 E3F4—G4F3		30 B7C7—D7E8	25 A4B5—A8B8	48 E3D4—H8H7	0-1
13 F5G6—F7G6	10 C3D5—F6D5	50 D2C4—D6E4	23 F4F3—G8H7		31 C5E5—E2E5	26 D1F1—F2D4	49 C2B3—D6B6	
14 H5F3—E7E5	11 B3D5—C8D7	51 C4E5—E7D6	24 E4F5—B5F5		32 C7E5—E8F8	27 B5B3—F5F4	50 B3C4—A6A5	
15 F3F6—D7G7		52 E5F7—D6D5	25 F3F5—G6F5		33 E5C5—F8G8	28 D2C3—E4D5	51 D4D5—B4B3	49. MEPHISTO - SCISYS
16 F6G7—F8G7		53 C3C7—E4C5	26 H2H4—D4D3		34 F4G3—G4F3	29 B3B4—D5E4	52 A2A3—H7H8	MARK V
17 G5E6—E8D7	13 D4E5—D6E5	54 H1G1—D5E6	27 C1E3-A8D8		35 C5F2—F3D5	30 B3B4—D4B4	53 G4D4—H8G7	01 E2E4—E7E5
18 E6G7—A8F8	14 C1E3—D8E7	55 F7G5—E6D6	28 H4H5—D8D7		36 A5C4—D8F8	31 A3B4—A7B5	54 D5D6—B6B8	02 G1F3—B8C6
19 B2B3-A4C3	15 D1D3—E7D6	56 C7A7—H4D4	29 G1F1-D7E7		37 F2B6—G2H3	32 F1F4—B5D6	55 D6D7—B8D8	03 F1C4-F8E7
20 F1F8—H8F8	16 A1D1—F6E7	57 G5F7—D6E6	30 E3F4—E7B7		38 C4E3-D5G5	33 C2C3—D5E4	56 C4B3—G7F6	04 E1G1-D7D6
21 C1H6—F8F7	17 D3C4—D7E8	58 F7D8—E6F6	31 B1C1-B7B2		39 A1E1-C6C5	34 B1A2—B8A8	57 D4D5—F6E6	05 B1C3-C8G4
22 A2A4—C3E2	18 C4F1—E8D7	59 G1H2—D7E8	32 C1C4-B2H2		40 E3C4—G5D5	35 A2B3—H7H5	58 D5A5—D8D7	06 H2H3-G4F3
23 G1H1-E2D4	19 D5C6—D6C6	60 D8C6—D4D2	33 C4C6-H2H1		41 B6B7—D5D4	36 C3C4—E4D3	59 A3A4—D7D6	07 D1F3—G8F6
24 C2C4—F7F6	20 F3E5—C6C2	61 C2B1-D2B2	34 F1G2—H1A1		42 G1H1-H3C8	37 C4C5-D6B5	60 A5C5—D6D3	08 D2D3-E8G8
25 A1B1—G6G5	21 D1D7—A8E8	62 C6E7—B2B1	35 C6A6—G7D4		43 B7C6—C8D7	38 G1H1-B5D4	61 B3C4-D3F3	09 C1E3-D8D7
26 H6G5—F6G6	22 D7D2—C2E4	63 E7D5—F6E6	36 A6A5—D4B6		44 C6G2-D4F6	39 F4D4—D8D4	62 B2B4—F3F4	10 F3G3—C6D4
27 G7H5—G6G5	23 E5D7—E4B7	64 D5B6—E8B5	37 A5D5—A1A2		45 G2D5—F6F7	0-1	63 C4B5—E6D6	11 A1C1—B7B5
28 H5F6—D7E7	24 D7F8—G8F8	65 A4B5—B1B5	38 G2H3—A2A1		46 D5C5—D7E6		64 A4A5-F4F8	12 E3D4—B5C4
29 F6D5—E7E6	1-0	66 B6A8-E6E5	39 H5H6—A1H1		47 C5B4—F7F3		65 A5A6—F8A8	13 D4E3—A8B8
30 B1F1—G5G7		67 A8C7—B5B7	40 H3G2—H1G1		48 H1G1—E6D5	47. MEPHISTO - SCISYS	66 B5A5-A8G8	14 D3C4—B8B2
31 B3B4—C5B4	43. MEPHISTO - SC9	68 A7B7—C5B7	41 G2H2—G1E1		49 B4F8—F3F8	MARK V	67 A6A7—G8D8	15 A2A4—D7C6
32 F1F6—E6D7	01 D2D4—G8F6	69 C7A8—E5D5	42 D5D7—H7H8		50 E1E5—F8F3	01 D2D4—G8F6	68 A5A6-D8H8	16 E3H6—F6E8
33 D5B4—D4E6	02 C2C4—G7G6	70 A8B6—D5D6	43 D7D3—E1E2		51 C4E3—F3H1	02 C2C4—E7E5	69 A6	17 H6E3—C6A6
34 F6F2—B7B6	03 B1C3—F8G7	71 G2G4—G6G5	44 H2H3—E2E1		52 G1F2—H1F3		70 B7B6-H7H8	18 C3D5—E7D8
35 B4A6—E6F4	04 E2E4—D7D6	72 H2G3-D6C6	45 H3H4—E1E8		53 F2E1—D5A2	03 D4E5—F6G4	71 C5A5—H8E8	19 E3D2—A6A4
36 D3D4—F4E6	05 G1F3—E8G8	73 B6C4-A5A4	46 D3D7—B6D8		54 E5E8—G8F7	04 D1D4—D7D5 05 C4D5—B8C6	1-0	20 G3C3—B2A2
37 D4E5—D6E5	06 F1E2—E7E5	74 C4E5—C6B5	47 H4H5—A7A5		55 E8E4—F3H1	06 D4E4—F8C5		21 C3D3—A2A3
38 F2F5—D7D6	07 E1G1—B8C6	75 E5F3—A4A3	48 D7F7—A5A4		56 E1D2—A2E6	07 E2E3—C6E5	AR COICUS MARK V	22 D5C3—A4C6
39 F5F1—G7G4	08 D4D5—C6E7	76 F3D4—B5A4	49 H5G6—E8G8		57 A6A7—H1A1	08 H2H3—F7F5	48. SCISYS MARK V	23 D3D5—C6D7
40 F1D1—D6E7	09 C1E3—F6G4	77 D4E2-A4B3	50 G6F5—G8E8		58 G3B8—A1A5	09 E4C2—C5B4	MEPHISTO	24 C1A1—A3A1
41 D1E1—E6G5	10 E3G5—C8D7	78 E2C1—B3B2	51 H6H7—D8B6		59 D2E2—A5H5	10 B1C3—B4C3	01 E2E4—E7E5	25 F1A1—C7C6
42 C4C5—G5E4	11 H2H3—G4F6	79 C1D3-B2C2	52 F4E5—E8E5		60 E2F2—E6D5	11 C2C3—E8G8	02 G1F3—B8C6	26 D5D3—D8B6
43 C5C6—E4F2	12 B2B4—A7A5	80 D3B4-C2B3	53 F5E5—A4A3		61 E4F4—F7G6	12 H3G4—E5G4	03 F1C4—F8C5	27 C3A4—E8F6
44 H1G1—F2H3	13 B4B5—F6H5	81 B4D3-B7C5	54 G3G4—A3A2		62 F4F5—H5F5		04 E1G1—D7D6	28 A1B1—D7C7
45 G1F1—G4F4	14 A2A4—D8E8	82 D3C5B3C4	55 F7F8—H8H7		63 E3F5—G6F5		05 C2C3—C8G4	29 D2G5—B6A5
46 F1E2—F4A4	15 D1D2—G8H8	83 C5E4-A3A2	56 F8A8—1-0		64 C2C4—D5C6	14 C3B3—A7A6	06 B2B4—C5B6	30 G5F6—G7F6
47 C6C7—H3F4	16 A1C1—F8G8	84 E4D2—C4B4	SS TONG TO		65 D3D4—F5E4	15 D5D6—G8H8 16 D6C7—D8C7	07 D2D3—G8F6	31 C4C5—F8D8
48 E2F3—A4A3	17 F3H4—H5F6	85 D2E4A2A1			66 D4D5—C6A8		08 H2H3—G4F3	32 D3G3—G8H8
49 F3E4—A3C3		86 E4G5—A1E5	45. MEPHISTO · SCISYS		67 D5D6—A8B7	17 G1F3—B7B5	09 D1F3—E8G8	32 D3G3—G516 33 C5D6—C7D6
50 E4E5—F4D3	18 F2F4—E7C8 19 F4F5—E8F8	87 G3H4—E5F6	MARK V		68 D6D7—E4D4	18 C4E2—C8B7	10 A2A4—A7A5	34 C2C4—A5B4
51 E5D4—D3E1	20 F5G6—F7G6	88 H4H5—F6G7			1-0	19 C1D2—B7D5	11 C1A3—A5B4	35 G3H4—C6C5
52 D4C3—E7D7		89 H3H4—B4C4	01 E2E4—E7E5		1-0	20 B3D3—D5E4	12 A3B4—C6B4	
53 G2G3—E1F3	= = .	90 G5H3—G7H8	02 G1F3—B8C6			21 D3C3—C7B7	13 C3B4—B6D4	36 A4B2—D6C6 37 H4H6—B4D2
54 H2H4—H7H5	22 H4G6—H7G6 23 F2F6—E7E8	91 H5G6—H8H4	03 F1B5—G8F6		46. SCISYS MARK V -	22 C3B3—E4D5	14 A1A2—C7C6	
55 C3D3—F3H2		92 H3G5—H4G4	04 B1C3—F8C5		MEPHISTO	23 B3D3—D5E4	15 G2G4—D6D5	38 H6H4—D8D4 39 F2F3—A7A5
56 D3E4—D7C8		0-1	05 E1G1—A7A6		01 E2E4—E7E6	24 D3D4—A8D8	16 C4B3—D8D6	
57 E4F4—H2F1	25 G5F6—G8G7 26 E1H4—H8G8	0-1	06 B5C6—D7C6		02 D2D4—D7D5	25 D4B4—F6D5	17 G4G5—D6B4	40 G1H1—D2F4 41 H4G4—C6B7
58 F4F3—C8B7	27 F6G7—G8G7	44. SC9 - MEPHISTO	07 F3E5—C5D4		03 B1C3-F8B4	26 B4A3—F8E8	18 F3D1—F6H5	
59 F3F4—B6B5			08 E5C4—D4C3		04 G1E2-D5E4	27 A3B3—D5F6	19 B1D2—H5F4	
60 A6C5—B7C7		01 C2C4—C7C5	09 B2C3—F6E4		05 A2A3—B4E7	28 D2C3—E4D5	20 H3H4—F4D3	
61 C5E6—C7B6	29 H4G3—C8B6 30 E2H5—D7E8	02 B1C3—G8F6	10 F1E1—D8H4		06 C3E4—G8F6	29 B3B3—D5E4	21 E4D5—D3F2	44 F5G4—G7H8
	30 LZ113-D7E0	03 G2G3—G7G6	11 F2F3—H4F2					

45 G4F5—H8G7	46 D5D6—F2E3	39 D5D7—G7F6	06 F1B5—F8E7				
				22 D3B5—D7C5	18 C3C4—D5C7	30 D4F5—E3D3	51 E5C4—F3F2
46 F5G4—G7F8	47 D6D5—E3G1	40 H2G1—B4D3	07 G1F3—E8G8	23 C1C5—E6E5	19 C4B5—C7B5	31 C8C1—A7A5	52 C4E3—C7D5
47 G4F5—D4D2	48 D8A8—G7G6	41 D7D6—F6G5	08 B5C6—B7C6			32 B4C3-D3D1	53 E3F1—G3G2
48 F5F6—D2F2	49 D5D6—G6G5	42 H4F3—G5F5	09 E1G1—A7A6	24 C5C8—B7C8			54 F1D2—F2F1
49 B1D1—E3D4	50 A8F8—C5C4	43 D6H6—F5E4	10 F3G5—C8G4	25 D4E5—C8H3	21 B3C2—B5A3	33 C1D1—B2D1	
50 B2D3—F2A2		44 H3H4—F2C2		26 B5A4—H7H5	22 D3H7—G8H8	34 C3D4—A5A4	0-1
	51 F8C8—G1D4		11 F2F3—G4D7	27 A4B3—H3E6	23 C2G6—B8B1	35 B3C1—B6B5	
51 D3C5—A2H2	52 C8C4—G5G4	45 H6H7—C2C1	12 F3F4—D7G4		24 F1B1—D7E8	36 C1D3—F7G8	
52 H1H2—B7B2	53 C4C7—F6F5	46 G1H2—D3F2	13 D1C1—H7H6	28 G1F1—H5H4		37 E4E5—F6E5	59. PRESTIGE - MEPHISTO
53 H2H1—F8E8	54 E4F5—G4F5	47 F3G5—E4E3	14 F4E5—F6D7	29 E3E4—D5D4	25 G6D3—A3B1		01 B2B3—B8C6
54 F6C6—E8F8	55 C7F7—F5G6	48 G2G3—F4F3	15 G5F3—D6D5	30 B3E6—F7E6	26 D3B1—D6A3	38 F4E5—G8F8	02 E2E4—G8F6
				31 F3F4—D4D3	27 A5A6—A3A6	39 F5D6—D7D8	
55 C6A8—F8G7	56 D6E7—H6H5	49 G5F3—E3F3	16 E4D5—G4F3	32 F4F5—E6F5	28 H7D3-A6A5	40 D3B4—H7H6	03 B1C3—E7E5
56 C5D7—B2E2	57 E7E8—H5H4	50 H7F7—F3E3	17 F1F3—D7E5			41 B4C6—D8D7	04 G1F3—D7D5
57 A8F8—G7G6	58 F7C7—G6H5	51 D4D5—F2E4	18 F3F5—F7F6	33 B2B3—F5E4			05 E4D5—F6D5
58 F8D6—G6G7	59 C7H7—H5G5	52 F7A7—C1D1	19 D5D6—D8D4	34 B3B4—A5A4	30 F3H4—H8G8	42 E5E6—D7D6	06 C1B2—C8G4
				35 E5E6—H4H3	31 H4G6—F8F7	43 D4C5—F8E8	07 H2H3—D5C3
	60 H7G7—G5F4			36 E6E7—G8F7	32 F2F3—A5B4	1-0	
60 D1B1—D4B2	61 G7H7—D4F2	54 D7E7—F6E4	21 D2D3—E5D3		33 F3F4—A7A5		08 B2C3—G4F3
61 F6G5—G8H8	62 E8F7—E5E4	55 E7D7—E4F6	22 C3D5—D4D5	37 F2F4—E4F3			09 D1F3—A7A6
62 D7E5-E2E1	63 F7G6-E4E3	56 D7E7—F6E4	23 F5D5-D3C1	38 F1G1—D3D2	34 H1G1—B4B3		ICE10 F1C4—D8D7
			24 D5D7—F8E8	0-1	35 D3E4—B3B5	58. MEPHISTO - PREST	11 E1G1—F8D6
1-0		57 E7D7—1/2-1/2			36 C1A3—B5B4	01 E2E4—C7C6	11
	65 F7E7—H4H3		25 C6C7—C1B3		07 A2D4 AED4	02 D2D4—D7D5	12 F3E4—E8G8
50. SCISYS MARK V	66 E7E5—E3E2		26 A2B3—C8A8	55. PRESTIGE - MEPHIS	TO 20 F4C2 D7C9		13 C4D3—G7G6
	67 E5G5—G3H2		27 A1A5—E7F8			03 E4D5—C6D5	14 D3C4—D6C5
MEPHISTO	68 G5E5—H2G2	52. SCISYS MARK V ·	28 B2A3—E8E7	01 F2F4—G8F6	39 G1F2—F7C7	04 C2C4—G8F6	15 A2A4—F8E8
01 E2E4—C7C5		MEPHISTO		02 G1F3—D7D5	40 C2B3—C6C5	05 B1C3—G7G6	
02 B2B3—G8F6	69 E5E2—H3H2		29 D7D8—E7E8	03 E2E3—C8G4	41 D4C5—G8F7	06 C4D5-F6D5	16 A1E1—A8D8
	70 G6F5—H2H1	01 E2E4—E7E5	30 D8A8—E8A8	04 H2H3-G4F3	42 G6H8—F7E7		17 A4A5—C5D4
03 D2D3—D7D5	0-1	02 D2D4—E5D4	31 A3C5—F8C5				18 E1A1—D4C3
04 C1B2—D5E4		03 D1D4—B8C6	32 A5C5—A8C8	05 D1F3—E7E6	43 H8G6—E7D8	08 B5D7—D8D7	19 D2C3—G8G7
05 B2F6—G7F6		04 D4E3—G8F6	33 B3B4—G8F7	06 B1C3—F8E7	44 G6F8—E6E5	09 C3D5—D7D5	20 B3B4—D7D6
06 D3E4-D8D1	54 MEDIUSTO 0010V0			07 D2D4—E8G8	45 F4E5—F6E5	10 D1F3—E7E6	
07 E1D1—F8H6	51. MEPHISTO - SCISYS		34 C2C4—F7E7	08 F1D3—C7C5	46 F8E6—C8E6	11 C1D2—B8C6	21 H3H4—E8E7
	MARK V	06 B1C3—D7D5	35 C5C6—A6A5	09 D4C5—B8C6	47 B3E6—C7C5		22 A1E1—G7G8
08 F1B5—B8C6	01 D2D4—G8F6	07 E3G3—C6B4	36 B4A5—E7D7			12 F3D5—E6D5	23 E1E3—E7D7
09 G1F3—E8G8		08 E1C1—E8G8	37 C6C5—C8C7	10 C1D2—C6B4	48 F2F3—C5C3	13 G1F3—F8G7	24 E3D3—D6E7
10 B1D2—F8D8	02 C2C4—C7C5	09 A2A3—B4A6	38 C5C7—D7C7	11 E1G1—A8C8	49 H2H4—B4B3	14 D2E3—E8G8	25 C4D5—E7F6
11 H2H3—C8E6	03 D4C5—E7E6			12 C3E2—B4D3	50 F3E4—B3B2	15 E1G1—F7F5	
	04 E2E3—B8C6	10 E4D5—A6C5	39 F1G2—C7B7	13 C2D3—C8C5	51 E6A2—C3C1		26 F1E1—D7E7
12 G2G4—A7A6	05 F1E2—F8C5	11 F1C4—C8F5	40 C4C5—F6F5			16 G2G3—C6B4	27 D5C6—D8D3
13 B5C6—B7C6		12 F2F4—F6E4	41 G2F3—G7G5	14 D2C3—D8C7	52 E4E5—C1A1	17 F1C1—A8C8	28 C2D3—F6C6
14 D1E2—D8D7		13 C3E4—C5E4	42 H2H3—B7A6	15 E3E4—D5E4	0-1	18 C1C3—F8E8	29 E4C6—B7C6
15 C2C4—A8D8	07 E1G1—D7D5			16 D3E4—C5C4		19 C3C8—E8C8	
16 A1D1—G8F8	08 C4D5—E6D5	14 G3F3—E4D2	43 C5C6—A6A7	17 E2D4—E7B4	DESTINE MERLIN		30 G1H2—E7D7
	09 B2B3—D8A5	15 D1D2—D8D7	44 H3H4—A7A6	18 A1C1—B4C5	57. PRESTIGE - MEPHIS	21 A2A2 B4C6	31 E1E5—D7D3
17 A2A4—H6F4	10 C1B2—C8E6	16 G1E2—B7B5	45 H4H5—A6A7		01 G1F3—G8F6	21 A2A3—B4C6	32 E5E8—G8G7
18 H1E1—F8G7		17 C4D3—F5D3	46 F3E3—F5F4	19 C1D1—F8D8	02 B2B3—B7B6	22 B2B4—C2C3	33 E8A8—D3C3
19 E1G1—A6A5	11 B2F6—G7F6	18 F3D3—B5B4	47 G3F4—G5F4	20 F3F2—C7B6		23 B4B5—C6A5	34 A8A6—H7H6
20 G1G2-D7D3	12 D1C2—C6B4			21 B2B4—C5D4		24 D1C1—C3C1	
21 G2G1—D8D6	13 C2C3—C5E7	19 A3B4—E7B4	48 E3F4—A7A6	22 C3D4—C4D4	04 F1E2—E7E6	25 E3C1—A5B3	
	14 A2A3—B4C6	20 C2C3—B4C5	1-0	23 D1D4—D8D4	05 E1G1—F8E7		36 H4H5—G6H5
22 H3H4—D3B3	15 C3A5—C6A5	21 B2B4—C5E7			06 C1A3—C7C5	26 C1B2—G7F6	37 A7C7—B3B4
23 D2B3—E6C4		22 H1E1-A7A5	54. SCISYS MARK V -	24 F1C1—F6E8	07 C2C4—E8G8	27 F3E5—G8G7	38 C7C6—B4H4
24 E2E1—D6D1	16 F3D4—E7C5	23 D3D4—A5B4	MEPHISTO	25 B4B5—D4E4	08 D2D4—B8C6	28 A3A4—G7H6	39 H2G3—H4G4
25 E1D1—C4B3	17 B1D2—C5D4			26 F2B6—A7B6		29 B2C3—F6E7	40 G3F3—G4A4
26 D1E2—B3A4	18 E3D4—A5C6	24 D2B2—B4C3	01 D2D4—D7D5	0-1	09 D4D5—E6D5	30 A4A5—H6H5	
	19 D2F3—A8E8	25 B2B1—E7F6	02 C2C4—C7C6		10 C4D5—F6D5	31 E5D3—E7F6	41 A5A6—H5H4
27 G1A1—A4B5	20 A1C1—E6D7	26 D4C4—F8E8	03 C4D5—C6D5		11 D1D5—E7F6		42 C6D6—A4A2
28 E2E1—A5A4	21 E2D3—A7A6	27 C1D1—E8D8	04 B1C3—E7E6	CO MEDIUCTO DECE	IGE12 B1D2—C6D4	32 D3F4—H5H6	43 D6B6—A2A4
29 A1D1—E7E6		28 E2C3-F6C3		56. MEPHISTO - PREST	13 D5B7—D4E2	33 F4E6—B7B6	44 B6C6—A4A2
30 D1D8—C5C4	22 C1C5—C6E7		05 G1F3—B8C6	01 D2D4—D7D5		34 A5A6—F6E7	45 C6D6—A2A4
31 F3D4—F4E5	23 F1E1—D7C6	29 C4C3—D7D5	06 C1F4—D8A5	02 C2C4—E7E6	14 G1H1—F6A1	35 G1H1—E7F6	
	24 E1C1—C6D7	30 D1C1—D8D6	07 E2E3—G8F6		15 F1A1—D8C8	36 H1G2—F6E7	46 D6B6—A4A2
32 D4E2—C4C3	25 C5C7—D7C6	31 B1A1—A8A1	08 F1D3—F8B4		16 B7C8—A8C8		47 F3E3—A2A3
33 F2F4—B5E2	26 C1E1—E7G6	32 C1C2—D5A2	09 D1B3—E8G8	04 C1G5—F8E7	17 A3B2—C5C4	37 F2F4—E7F6	48 E3D2—A3A2
34 E1E2—E5F4		33 C3B2-D6D2		05 E2E3—E8G8	18 B3C4-D7D5	38 H2H3—H6H5	49 D2C3—A2F2
35 E2D3—F4G3	27 E1E8—F8E8		10 A1C1—B7B6	06 G1F3—B8D7	19 C4D5—F8D8	39 G2F2—G6G5	50 A6A7—F2A2
36 D8A8—G3H4	28 D3A6—E8A8	34 C2D2—A2B2	11 E1G1—C8B7	07 A1C1—C7C6		40 F4G5—F6G5	
	29 A6B7—A8A3	0-1	12 H2H3—A8C8		20 E3E4—F7F6	41 H3H4—G5D2	
37 D3C3—C6C5	30 H2H3-C6B7		13 A2A3—B4C3		21 F3D4—E2F4		52 C3B3—A2A5
38 C3C4—H4F2	31 C7B7—G8G7		14 B3C3—C6E5	09 D3C4—F6D5	22 H1G1—F4D3	42 C3D2—B3D2	53 B3B4—A5A1
39 A8A4—H7H6		53. MEPHISTO - SCISYS		10 G5E7—D8E7	23 B2A3—C8C3	43 E6F4—H5G4	54 B4B5—F7F5
40 A4A3—F2D4	32 B3B4—G6F4		15 C3A5—E5F3	11 E1G1—D5C3		44 F4D5—D2E4	55 B7B6—G6G5
41 A3A8—E6E5	33 G1H2—A3A2	MARK V	16 G2F3—B6A5	12 B2C3D7B6	24 D2B3—D8D7	45 F2E3—G4G3	
	34 B7B5—A2F2	01 E2E4—C7C5	17 C1C7—C8C7		25 A1D1—D3E5	46 D5B6—E4C3	56 B6A6—A1B1
42 C4D5—D4F2	35 H2G3-F4D3	02 B1C3—D7D6	18 F4C7—A5A4		26 F2F4—E5C4		57 B5C6—B1C1
43 A8A7—F2E3	36 F3H4—F6F5	03 G2G3—G8F6	19 C7D6—F8C8	14 D1B3—C8D7	27 A3B4-C3E3	47 B6C4—F5F4	58 C6D7—C1D1
44 A7A8—E3D4				15 A2A4—A8B8	28 D1C1—C4B2	48 E3D3—C3B5	59 D7E7—H4H3
45 A8D8—D4F2	37 B5D5—F5F4	04 B2B3—E7E5	20 D6C5—A7A5	16 A4A5—B6D5		49 H4H5—B5C7	60 A7A8 = Q
	38 G3H2—D3B4	05 C1B2—B8C6	21 F1C1—F6D7	17 C1B1—B7B5	29 C1C8—G8F7	50 C4E5—F4F3	1-0
				., 5.2. 5.50			170

60. MEPHISTO - PRESTIGE	61. PRESTIGE - MEPHISTO	20 D1D2—F5D7 21 D2E3—B7B6	35 A3B5—E6C4 36 A2A4—F8A8		E5F3—E8G8 E1G1—F8E8	68. SC9 - SCISYS MARK V	26 F5H7—G8F8 27 G3G4—C5C4	69. SCISYS MARK V - SC9
		22 E3E5—D7A4	37 D1C1—A8A4	14	D2D4—C8E6	01 E2E4—E7E5	28 G4G5-C4D3	01 E2E4—E7E5
01 E2E4—E7E5	01 E2E4—E7E6 02 D2D4—D7D5	23 C2C4—A4A2	38 B5C3—E4E3	15	B1C3-A8B8	02 G1F3—B8C6	29 G5F6-D3C2	02 D2D4—E5D4
02 G1F3—G8F6	02 B2D4—B7B3 03 B1C3—F8B4	24 E5E3—A2C2	39 C3A4—E3F2	16 (G1H1—A5C4	03 F1B5—G8F6	30 E4C2-G7F6	03 D1D4—B8C6
03 F3E5—D7D6	04 E4E5—C7C5	25 B1C1—C2B3	40 G1H1—C5E3		B2B3—D8A5	04 E1G1—F6E4	31 E1F1—F8E7	04 D4E3—G8F6
04 E5F3—F6E4 05 D1E2—D8E7	05 A2A3—B4C3	26 C1B1—B3C3	41 C1B1—G7G6	18 I	D1D3—C4B6	05 D2D4—E4D6	32 C2G6—C8F8	05 C1D2—B7B6
06 D2D3—E4F6	06 B2C3—G8E7	27 F4F5—F8D8	42 A4C3—G8G7	19 (C1D2—A5H5	06 B5C6—D7C6	33 E2F2—F6F5	06 B1C3—F8C5
07 C1G5—C8E6	07 D1G4—E8G8	28 F5G6—F7G6	43 G2G4—E3D4	20	F3E5—F6G4	07 D4E5—D6F5	34 F2F5—C3D3	07 E3G3—E8G8
08 B1C3—H7H6	08 F1D3—C5D4	29 B1D1—G8H8	44 H1G2—F2F1		D3G3—D6E5	08 D1D8—E8D8	35 B1A1—D3C3	08 E1C1—F8E8
09 G5F6—E7F6	09 C3D4—D8C7	30 E3E5—C3E5	45 B1F1—C4F1		D4E5—B8D8	09 C1D2—C8E6	36 A1B1—C3D3	09 F1D3—C6B4
10 D3D4—F6E7	10 G1E2—B8C6	31 E1E5—A7A5	0-1		E2G4—E6G4	10 B1C3—F8E7	37 B1B2—D3D2	10 E4E5—F6D5
11 E1C1—D6D5	11 C1G5—C7A5	32 E5E6—A8A6			D2F4—B6D5	11 D2G5—F7F6	38 B2A2—D2A5	11 C3D5—B4D5
12 G2G3—B8C6	12 C2C3—E7G6	33 D1B1—A5A4			C3E4—D5F4	12 F1D1—D8C8	1/2 - 1/2	12 D3H7—G8H7
13 F1G2—E7D7	13 E1G1—C8D7	34 E6B6—A6A8	64. MEPHISTO -		G3F4—E8E6	13 E5F6—E7F6		13 G3D3—H7G8
14 E2B5—E8C8	14 F2F4—A8E8	35 B6C6—A4A3	PRESTIGE		E4G3—H5G6	14 G5F6—G7F6	68. SC9 - SCISYS	14 D3D5—A8B8
15 H1E1—F8E7	15 A3A4—C6E7	36 C6C5—A3A2	01 D2D4—G8F6		H2H3—G4H5	15 C3E4—H8F8	MARK V	15 D2E3—C5E3
16 A2A3—C8B8	16 A1B1—E7F5	37 B1A1—D8D3	02 C2C4—C7C5		F4H4—D8D2	16 F3D4—F5D4	01 C2C4—E7E5	16 F2E3—D8G5
17 F3E5—C6E5	17 G4F3—H7H6	38 C5B5—D3A3	03 D4C5—E7E6		H4H5—G6G3	17 D1D4—B7B6	02 B1C3—B8C6	17 G1F3—G5G2
18 E1E5-C7C6	18 B1B7—D7C6	39 C4C5—A3A6	04 E2E3—F8C5		H5F7—G8H8 F7F8—H8H7	18 F2F3—C8B7	03 G1F3—G8F6	18 H1G1—G2F2
19 B5B3—E7D6	19 D3F5—C6B7	40 B5B6—A6A7	05 G1F3—E8G8		F8F5—E6G6	19 G2G4—C6C5	04 G2G3—F8B4	19 G1F1—F2E3
20 E5E2—D8E8	20 F5G6—F7G6	41 C5C6—H8G7	06 F1D3—D7D5		F1G1—D2E2	20 D4D2—F6F5	05 F1G2—E5E4	20 F3D2—E8E6
21 D1E1—E6G4	21 G5H4—G6G5	42 G1H1—H7H6	07 E1G1—B8C6		A1F1—E2E5	21 E4G5—E6G8	06 F3G5—B4C3	21 D1E1—E3C5
22 F2F3—E8E2	22 H4G3—G5F4	43 H1G1—G7F7	08 B1C3—D5C4		F5D7—E5E2	22 D2D7—F5G4	07 D2C3—D8E7	22 D5F3—C5E7
23 E1E2—G4F5	23 G3F4—A5A4	44 B6B2—F7E6	09 D3C4—E6E5		F1F3—G3G5	23 F3G4—F8F4	08 D1C2—C6A5	23 F3A3—E7A3
24 G3G4—F5E6	24 F3G4—B7A6	45 B2C2—E6D6 46 C6C7—A7C7	10 F3G5—D8D1		D7D3—E2D2	24 H2H3—A8E8	09 B2B3—D7D6	24 B2A3—C8B7
25 H2H3—H8E8	25 H2H3—A4C2		11 F1D1—C8G4		D3F5—A7A6	25 G5H7—E8E2	10 G5E4—E8G8	25 C1B2—B8E8
26 C1B1—F7F6	26 F1E1—F8F7	47 C2D2—D6E5 48 A1A2—A8A2	12 F2F3—G4F5		F5G5—G6G5	26 H7G5—B7C6	11 C1G5—C8F5 12 G5F6—G7F6	26 F1F5—E6H6
27 H3H4—F6F5	27 F4H6—A6E2	49 D2A2—1/2-1/2	13 C1D2—A8D8		F3C3—C6C5	27 D7G7—G8D5	13 A1D1—A8E8	27 E1E2—F7F6
28 G4G5—H6G5	28 E1E2—C2C3	49 DEAZ - 72-72	14 G5E4—F6E4		G2G4—H6H5	28 G7G6—C6B7 29 C2C4—E2G2	14 D1D5—F5E4	28 D2F3—H6H5
29 H4G5—D7D8	29 G1H2—A7A5		15 C3E4—F5E4		A2A4—H5G4	30 G1H1—F4C4	15 G2E4—E7E4	29 F3D4—H5F5
30 C3A4—D8G5	30 E2F2—C3C7	63. PRESTIGE -	16 F3E4—D8D2		G1G4—G5F5	31 G6F6—G2G4	16 C2E4—E8E4	30 D4F5—E8E5 31 E2F2—D7D5
31 A4C5—D6C5	31 F2A2—F7E7	MEPHISTO	17 D1D2—C5E3	45 (G4G2—D2D4	32 G5F3—G4F4	17 D5A5—A7A6	31 E2F2—D7D5 32 H2H4—G8F7
32 D4C5—F5F4	32 H6G5—C7C4 33 G5E7—E8E7	01 E2E4—C7C5	18 D2F2—E3F2	46	C3G3—D4D7	33 F6F4—C4F4	18 E2E3—C7C5	33 F5D4—C7C6
33 G2H3—G5G1	34 A2A5—C4C6	02 G1F3—E7E6	19 G1F2—G8H8	47	H1H2—D7F7	34 A1F1—F4F3	19 E1E2—F8E8	34 D4F5—B7A6
34 B1A2—G1G6	35 A5A2—E7F7	03 D2D4—C5D4	20 A1F1—F7F5	48	C2C4—F5F6	35 F1F3—D5F3	20 H1D1—E8E6	35 F2F4—B6B5
35 E2E6—E8E6 36 H3E6—G6E6	36 G4G6—G8F8	04 F3D4—G8F6	21 F2G1—F5F4 22 B2B3—F8D8	49	G3G5—F6F3	0-1	21 D1D5—G8G7	36 A3A4—B5B4
37 B3C3—E6E2	37 G6H7—C6C7	05 B1C3—B8C6	23 C4D5—C6B4		G5C5—F3B3		22 E2F3—E4E5	37 F5D4—C6C5
38 A2A1—E2E3	38 A2A8—F8E7	06 D4B5—D7D6	24 D5B7—B4A2		C5H5—H7G8		23 G3G4—G7G6	38 D4C6—E5E4
39 C3G7—E3C5	39 H7H8—C7D7	07 F1C4—A7A6	25 F1A1—D8D7		C4C5—B3B4	67. SCISYS MARK V -	24 F3F4—H7H6	39 F4E4—D5E4
40 G7E5—B8C8	40 H8H4—F7F6	08 B5A3—B7B5	26 B7C6—D7D2		G2A2—B4C4	SC9	25 H2H3—H6H5	40 A2A3—B4A3
41 E5F5—C8C7	41 E5F6—E7F7	09 C4B3—B5B4	27 C6B7—H8G8		H5D5—F7C7	01 E2E4—C7C5	26 A2A3—H5G4	41 B2A3—E4E3
42 F5F4—C7B6	1-0	10 B3A4—C8D7	28 B7D5—G8F8		D5D8—G8H7	02 B1C3-B8C6	27 H3G4—E5E4	42 C2C4—E3E2
43 F4A4—C5E3		11 D1D2—B4C3	29 D5E6—A2C3		D8A8—C7C6 A8A7—H7H6	03 D2D3—E7E5	28 F4F3—E4E5	0-1
44 F3F4—E3E4		12 D2C3—F6E4 13 C3C6—E4C5	30 E6F5—G7G6		A2G2—G7G6	04 C1E3—G8F6	29 B3B4—C5B4	
45 A4B4—B6C7	62. MEPHISTO -	14 C6F3—C5A4	31 F5G4—C3E4		A7A8—C4C5	05 D1D2—F8E7	30 C3B4—F6F5	70. SC9 - SCISYS
46 C2C3—E4B4	PRESTIGE	15 E1G1—F8E7	32 A1A7—D2B2		A8E8—C5C4	06 G2G3—D7D6	31 G4F5—G6F5	MARK V
47 A3B4—C7D6	01 E2E4—C7C5	16 A1B1—E8G8	33 H2H3—B2B1		G2G4—C4G4	07 F1G2—F6G4	32 E3E4—F5G6	01 D2D4—G8F6
48 B4B5—C6B5	02 B1C3—B8C6	17 B2B3—A4C5	34 G1H2—E4G3		H3G4—C6C4	08 F2F4—G4E3	33 D5D6—E5E4 34 D6E6—E4E6	02 C2C4—C7C5
49 A1A2—D6E6	03 F2F4—G7G6	18 B3B4—C5A4	35 A7A8—F8G7		H2G3—C4A4	09 D2E3—E8G8	35 A5D5—F7F5	03 D4D5—E7E6
50 A2B3—A7A5	04 G1F3—F8G7	19 C1F4—E6E5	36 G4D1—B1D1		E8E6-A6A5	10 G1F3—C6D4	36 D5D7—B7B5	04 B1C3—E6D5
51 B3C2—E6F5	05 F1C4—E7E6	20 F4D2-D7E6	37 A8A7—G7H6	65	E6D6-A4C4	11 E1C1—C8E6	37 C4C5—G6G5	05 C4D5—D7D6
52 C2D3—B5B4	06 E1G1—G8E7	21 C2C4-A4B6	0-1		D6D5—A5A4	12 F4F5—E6D7	38 D7D6—E6D6	06 E2E4—G7G6
53 C3B4—A5B4	07 D2D3—D7D5	22 F1C1-D8C7		67 (G3H4—A4A3	13 C3D5—G8H8	39 C5D6—G5F6	07 G1F3—C8G4
54 D3D4—F5E6	08 E4D5—E6D5	23 B4B5-A6B5	65. SCISYS MARK V - SC9	68 I	D5A5—C4C3	14 H1E1—D7A4 15 B2B3—D4F3	40 F3F4—F6E6	08 F1B5—B8D7
55 F4F5—E6D6	09 C4B3—C8G4	24 A3B5—C7D7	01 E2E4—E7E5	69 (G4G5—H6G7		41 D6D7—E6D7	09 E1G1—F8G7
56 F5F6—D6E6	10 H2H3—G4F5	25 B5A3—E7D8	02 G1F3—B8C6		H4G4—G7F8	16 E3F3—E7G5 17 C1B1—A4C6	42 F4F5—D7C6	10 C1F4—A7A6
57 F6F7—E6F7	11 F1E1—E8G8	26 C1C3—A8B8	03 F1C4—G8F6		A5A7—C3D3	18 H2H4—C6D5	43 F5E5—C6B6	11 B5E2—G4F3
58 D4D5—F7F6 59 B2B3—F6F5	12 C1D2—D8B6	27 C3B3—D7C8	04 F3G5—D7D5		G4F4—D3H3	19 E4D5—G5F6	44 F2F3—B6C6	12 E2F3—D8B6
60 D5C4—F5E4	13 C3D5—E7D5	28 D2E3—E5E4	05 E4D5—C6A5		F4E5—H3F3	20 F3G4—D8A5	45 E5E6—C6B6	13 C3A4—B6C7
61 C4B4—E4D4	14 B3D5—G7B2	29 F3F4—C8C6	06 C4B5—C7C6		E5E6—F8G8	21 G2E4—A5C3	46 F3F4—B6C7	14 F1E1—E8G8 15 A1C1—B7B5
62 B4A5—D4C5	15 A1B1—C6D4 16 D2C3—B6D6	30 B1D1—D8C7	07 D5C6—B7C6		A7A8—F3F8	22 E1E2—F8C8	47 E6E7—A6A5	16 A4C5—D7C5
1/2-1/2	17 C3D4—B2D4	31 E3B6—B8B6	08 B5E2—H7H6		A8A3—F8F7	23 D1E1—F6D8	48 F4F5—C7B6	17 B2B4—F6D7
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	18 F3D4—B2D4 18 F3D4—D6D5	32 B3B6—C7B6	09 G5F3—E5E4		A3D3—G8G7	24 F5F6—D8F6	1-0	18 B4C5—D7C5
	19 D4F5—D5F5	33 F4D6—C6C5	10 F3E5—F8D6		D3D6—F7B7	25 G4F5—H8G8		19 D1C2—A8C8
	50.0	34 D6C5—B6C5	11 F2F4—E4F3	19	E6E5—1/2-1/2			

	36 H7E4—A4B3 37 E4D3—B3B2	00 B-A- 10	08 D1F3—D8C7 09 E1C1—B8D7	34 H1H2—H3F2 35 H2G3—H6F4 0-1	17 C4E2—A7A6 18 A5A3—A6A5	38 E5B5—F6E6 39 A5A6—D3D6	05 E1G1—D7D6 06 B2B3—E7E5
16 G5E7—D8E7 17 D3E3—E7B4 18 G2G4—H5F4 19 E3D2—D7C6 20 A2A3—A5B3 21 A3B4—B3D2	30 D4D6—G5G4 31 H3G4—F6G4 32 D6D2—A5A4 33 F1E1—C5B4 34 F3G5—F8F2 35 C2H7—G8G7	50 G3G4—C4A3 51 B7B6—A3C4 52 B6B5—A5A4 53 B5B8—F8F7 54 B8B4—C4E5 55 G4F5—E5G6 56 B4A4—1-0	02 G1F3—D7D6 03 D2D4—C5D4 04 F3D4—G8F6 05 B1C3—A7A6 06 C1G5—E7E6 07 F2F4—F8E7	28 B5A3—F7G5 29 A3C2—E8G6 30 G1H1—G6E6 31 C2B4—G5H3 32 E1F1—E6H6 33 F2F3—F4E3 34 H1H2—H3F2	11 E1G1—D5C3 12 C1C3—E6E5 13 D1C2—E5E4 14 F3D2—D7F6 15 C3A3—C8D7 16 A3A5—B7B5	31 B5A5—D3F3 32 D1F1—F3D3 33 F2F3—G4H6 34 A5E5—H6F5 35 A4A5—F5G3 36 F1F2—E7F5 37 G1G2—F7F6	81. PRESTIGE · SC9 01 D2D4—G8F6 02 G1F3—G7G6 03 G2G3—F8G7 04 F1G2—E8G8 05 E1G1—D7D6
10 C1F4—A8C8 11 A1C1—C6A5 12 C4D3—C7C5 13 D4C5—E7C5 14 E4E5—F6H5 15 F4G5—C5E7	24 A1A4—B4B6 25 B1D2—C5D4 26 A4D4—A8F8 27 D2C4—B6C5 28 G1F1—G7G5 29 H2H3—A6A5	45 G7H5—F3G4 46 H5F6—H7H5 47 C3C7—A7A5 48 F6G4—H5G4 49 C7B7—E5C4	51 F7C4—G5G4 52 C4G4—1-0 75. PRESTIGE - SC9 01 E2E4—C7C5	22 B2B3—F6G5 23 C3B2—F5F4 24 A4C3—B4B8 25 E3F4—G5F4 26 E2A6—B8A8 27 C3B5—E6E8	05 E2E3—E8G8 06 G1F3—B8D7 07 A2C1—C7C6 08 F1D3—D5C4 09 D3C4—F6D5 10 G5E7—D8E7	26 C2C3—D8D5 27 B1B6—C8D8 28 A1D1—A6A5 29 B6B5—D5D3 30 E2D3—D8D3	49 E5E6—D3F3 50 B6C6—H6H5 51 F5F6—H5H4 52 C6D7—F3F6 0-1
04 D1A4—B8C6 05 E2E3—C8D7 06 A4C4—F8B4 07 B1C3—B4E7 08 H2H3—G8F6 09 E3E4—E8G8	18 E5F6—D5F6 19 E4B7—F8B8 20 B7B4—B8B4 21 D2B4—D7B5 22 F1G1—B5B4 23 B2B3—C7C5	39 E6E3—A5C6 40 E3D3—D7E7 41 F7D6—C6E5 42 D6F5—E7F7 43 D3C3—F7F8 44 F5G7—B7F3	7. 46 E8G8—H7G6 47 C8G4—E5G5 48 G4E4—G6H5 49 G8F7—G7G6 50 E4F3—H5H4	16 D2A5—H6G4 17 H2H3—G4H6 18 D1D3—H6F7 19 C1D1—B8B5 20 A5C3—E5E4 21 D3E2—D7E6	78. SC9 · PRESTIGE 01 D2D4—D7D5 02 C2C4—E7E6 03 B1C3—G8F6 04 C1G5—F8E7	20 F1B1—F6G4 21 H2H4—H7H6 22 G5F7—F8F7 23 G2D5—G6E7 24 D5F7—G8F7	43 B5B6—C5D5 44 G1D1—E7E6 45 D4E6—D5D2 46 E6D8—D2D1 47 D8F7—D1D3 48 F4F5—H7G8
71. SCISYS MARK V - SC9 01 D2D4—D7D5 02 C2C4—E7E6 03 G1F3—D5C4	12 A4B3—C6B4 13 A2A3—D7B5 14 A3B4—B5F1 15 G1F1—E7B4 16 C1D2—D8D7 17 B3C2—F7F5	32 G3G4—B7B6 33 C5D3—C8B7 34 G2G3—E7E8 35 D3E5—C6A5 36 D5D6—F7F6 37 D6E6—E8D8 38 E5F7—D8D7	41 E6E7—G2E4 42 E7E8 = Q — E4D3 43 C3B4 — D3D2 44 B4B5 — D2B2 45 B5A6 — B2E5 At this point SC9 announced mate in	10 C3A4—A8B8 11 C2C4—E776 12 E5D7—D8D7 13 C4C5—D6E7 14 A1C1—E7F6 15 F1E1—E6E5	38 F7F8—H8H7 39 E2D2—C1A2 40 F6D6—A3D6 41 E5D6—A2B4 42 F8F5—H7H8 43 D6D7—1-0	13 E1G1—C8E6 14 D1E2—B8D7 15 A3C4—E6C4 16 E2C4—A8C8 17 C4D3—D7F6 18 F3G5—D6D5 19 B5A6—B7A6	36 H2G2—G7F8 37 E4E5—A8A6 38 B5D4—C8D8 39 B4C5—A6A4 40 G2D2—B7B6 41 C5C6—A4C4 42 C6B5—C4C5
48 F3G2—C3C6 49 G2G1—C6C1 50 G1G2—C1C6 51 G2G1—C6C1 52 G1G2—1/2-1/2	06 F1B5—C8D7 07 E4E5—F6D5 08 E1G1—A7A6 09 A4E4—E7E6 10 B5A4—F8E7 11 D2D4—E8G8	26 E6C5—D7C8 27 C5E4—C8D7 28 C1D1—D7E6 29 D1D6—G8F8 30 E4C5—E6C8 31 D6D5—F8E7	35 C5C8—G8H7 36 C8F5—H7G8 37 A2A4—G8F8 38 E5E6—F7F6 39 E5C5—F8G8 40 C5C8—G8H7	04 E2E3—G8H6 05 F1B5—E8G8 06 E1G1—B8C6 07 B1C3—D7D5 08 B5C6—B7C6 09 F3E5—C8D7	32 F5E6—F7E6 33 H3G5—B4D3 34 F2F7—G8H8 35 G5E6—D8G8 36 E6F8—D3C1 37 F1F6—G8F8	07 A2A4—D5F4 08 G2G3—F4G6 09 B2A3—B4A3 10 B1A3—D7D6 11 E5D6—C7D6 12 F1G2—E6E5	30 C1F1—E3A3 31 A7B5—A3A8 32 C4B4—G6H5 33 H1H5—F8C8 34 H5H2—H7H6 35 F1G1—G8H7 36 H2G2—G7F8
42 G2H3—F5H5 43 H3G2—C2C1=Q 44 A8G8—G7H6 45 G8H8—D4H8 46 D7D8=Q C1B2 47 G2F3—B2C3	MARK V 01 G1F3—D7D5 02 C2C4—G8F6 03 C4D5—F6D5 04 E2E4—D5F6 05 D1A5—B8C6	21 C7E6—D4D3 22 F4B8—D3D1 23 F1D1—C6B8 24 A1C1—B8C6 25 D1D7—C8D7	30 A7A3—H7H6 31 A3E3—D8H4 32 H2H3—H4H5 33 E3C5—H5E2 34 C2C3—E2G2	76. SC9 · PRESTIGE 01 G1F3—F7F5 02 D2D4—E7E6 03 C1D2—F8E7	27 F3F4—A6A3 28 B2D2—C6B4 29 F4F5—F8D8 30 D2E2—D5D3 31 E3F2—D3C3	02 C1B2—G8F6 03 B4B5—F8B4 04 E2E4—E8G8 05 E4E5—F6D5 06 G1F3—A7A6	25 D1C1—C3G7 26 H4H5—A4B2 27 D3C2—B2C4 28 C2B3—A2A3 29 B3C4—A3E3
35 FIG2—B584 36 E8F7—G8G7 37 E7A7—C5C4 38 A7A5—C4C3 39 A5A8—F6F5 40 D5D6—C3C2 41 D6D7—H4H3	48 D4E4—F4F3 49 E4D3—G4G3 50 D3E3—F3F2 0-1 72. SC9 · SCISYS	14 E2C3—H6F6 15 C3B5—F8D8 16 B5C7—D8D4 17 C4D3—D4D7 18 E4E5—F6E5 19 C1F4—E5D4 20 G1G2—A8B8	23 F1E2—C6C5 24 H1D1—B7B5 25 G3A3—E6C4 26 A3A7—E7G5 27 D6D8—A8D8 28 D1D8—G5D8 29 E2C4—B5C4	34 G4D7—E7D7 35 G2G4—D7E7 36 G4H4—E7D7 37 G1D1—D7C8 38 H4G4—C7D7 39 B6C6—C8B8 40 D1D7—1-0	20 C1D2—A8D8 21 F2F3—D5B4 22 D2E3—B4C2 23 A3C1—C2E3 24 C1E3—H7H6 25 G5H3—A5C6 26 B1B2—D8D5	42 C4B3—F8D6 43 F5E4—B1E4 0-1 79. PRESTIGE · SC9 01 B2B4—E7E6	18 B3B2—G7B2 19 B5C7—A8C8 20 C7B5—C8C4 21 F2F3—C4A4 22 B5A7—B2C3 23 E1E2—A4A2 24 E2D3—B6A4
28 H3E6—G8G7 29 E6F7—F8D8 30 G1F1—D8D6 31 F2F4—D6F6 32 G2G3—A6A5 33 E4E7—H5H4 34 F7E8—G7G8 35 F1G2—B5B4	40 F4E5—D6D5 41 B4B5—D5E5 42 B5A6—B7A6 43 B2B4—F7F5 44 C3C4—E5F4 45 C4D3—F4G4 46 D3E3—H7H6 47 E3D4—F5F4	06 B2C3—E8G8 07 E2E3—B8C6 08 F1D3—D5C4 09 D3C4—F6D5 10 G1E2—D8H4 11 G2G3—H4F6 12 E1G1—F6H6 13 E3E4—D5C3	16 D5D2—G4E6 17 F2F4—E6H3 18 F4E5—F6H4 19 E1D1—H3G4 20 D1C2—H4E7 21 B3G3—G4E6 22 D2D6—F8D8	27 C3D5—B7D5 28 D1D5—D8F8 29 D5D6—A8C8 30 F3G4—C8A8 31 E2G2—F8G8 32 D6C6—A8A7 33 C6B6—C5D7	13 B3A3—D5C4 14 A1B1—F6D5 15 D2E4—B7B6 16 E4G5—C8B7 17 E2E4—D5F6 18 E4E5—B7G2 19 G1G2—F6D5	35 H5G4—B3D5 36 C6A6—B4B3 37 A6B6—C3A4 38 B6B4—B3B2 39 G4F5—D5C4 40 B4C4—B2B1 41 F1E2—A4B2	11 D4D5—C6E5 12 F1E2—E5F3 13 E2F3—G4F3 14 G2F3—D8D7 15 H2H4—D7D6 16 C3B5—D6F6 17 F3F4—F6B2
20 F3G4—F7F5 21 E4F5—H7H5 22 G4H3—C8B8 23 C2C5—C7C5 24 C1C5—D6C5 25 F4B8—F8B8 26 F5G6—B8F8 27 E1E4—G7D4	32 C2C3—D8D5 33 E4G5—A7A6 34 G5F3—G8F8 35 F3E5—C6E5 36 E3E5—F8E7 37 H3H4—E7D6 38 E5H5—D5H5 39 G4H5—E6E5	73. SCISYS MARK V - SC9 01 D2D4—G8F6 02 C2C4—E7E6 03 B1C3—F8B4 04 F2F3—D7D5 05 A2A3—B4C3	08 F4D6—F6D6 09 D1A4—B8C6 10 D2F3—E8G8 11 A1D1—D6F6 12 A4B3—G4E5 13 F3E5—C6E5 14 E2E4—C8G4 15 D1D5—C7C6	18 E2G4—G8F8 19 F4F5—B6D8 20 F5E6—E7G5 21 E3E2—C8C7 22 E6F7—F8F7 23 D4F5—G5E7 24 E4E5—D6D5 25 G4F3—G7G6 26 F5E7—F7E7	04 F3D4—E7E6 05 B1C3—B8C6 06 G2G3—D8B6 07 D4B3—F8B4 08 F1G2—B6A6 09 B3D2—B4C3 10 B2C3—E8G8 11 E1G1—D7D5 12 D1B3—C6A5	26 C1A1—A2A1 27 D1A1—E7D8 28 A1A6—D5C3 29 E2H5—D8E8 30 C5B7—F5C8 31 A6A8—E8F8 32 B7D6—C8E6 33 A8C6—B5B4 34 G1F1—E6B3	02 C2C4—G7G6 03 B1C3—D7D5 04 G1F3—F8G7 05 D1B3—D5C4 06 B3C4—E8G8 07 E2E4—C8G4 08 C1E3—F6D7 09 C4B3—D7B6 10 A1D1—B8C6

14 C2C4—G4F3	32 H5H4-A4C2	24 E2F4—E5E4	20 CEE7 CEB6	58 B6D5—E3E5	41 E5C7—B6A7	27 G2G1—C7C5	11 C1E3-A7A6
15 G2F3—C6D4	33 B1B5—C7C6	25 F4D5—F5G6	30 G5F7—C5B6		42 C7E5—A7B6	28 H4H5—B7B5	12 B5C3-B8D7
16 B2D4—E5D4	34 B5B2—C2D3		31 G2G4—A2B4	59 B4B5—A1C1	43 C4B4—A6A5	29 A1F1—C8D8	13 D1F3—B7B5
17 B3B4—C5D7		26 D5C7—E8D7	32 H2H4—B4D5	60 B5B6—C1F1			14 A2A4—B5A4
	35 G5F7—D3E4	27 C7A8—G6G5	33 F4E5—C6C5	61 G6G3—E5E8	44 B4C4—F7H7	30 H5H6—E2E3	15 A1A4—D7F6
	36 G1G2—E4G2	28 G8F8—B8C6	34 H4H5—D5E3	62 B6B7—F1F8	45 E6G5—H7H8	31 F1F8—E3E8	
19 D5F4—A7A5	37 H1G2—G8F7	29 F8F3—E4E8	35 H5H6—E3G4	63 D5E7—E8E7	46 F6F7—H8F8	32 F8E8—D8E8	16 F1A1—A6A5
20 A2A3—A5B4	38 H4F6—F7E8	30 F3F7—G5E7	36 H6H7—G4E5	64 B7B8—F8B8	47 E5D4—B6A6	33 H6H7—B4F4	17 D3B5—H7H6
21 A3B4—D7E5	39 C1G5—E7F5	31 F7F5—D7D6	1-0	65 G3B8—G8F7	48 D4C5—F8C8	34 H7H8—F4F8	18 B5C6—A8A6
22 C4C5—A8A1	40 F6G6—E8F8	32 F5G6—D6D7	. •	66 C5D5—E7D7	1-0	35 H8H5—F8F7	19 F3E2—D8C7
23 F1A1—B6C5	41 G6H7—F5G7	33 G6G4-D7D6	86. SCISYS MARK V -	67 D5E5—D7E7		36 H5F7—E8D8	20 C3B5—C7D8
24 B4C5—E5D7	42 G5F6—G7F5	34 A2A3—B4A3		68 E5F5—E7E8	88. SCISYS MARK V -	37 G7G8—1-0	21 B5A7—D8C7
25 F4D3—D8C7	43 B2B7—C6B7	35 G4F4—C6E5	PRESTIGE		PRESTIGE		22 A7C8—C7C8
26 F2F4—C7B7	1-0		01 E2E4—E7E6		01 D2D4—D7D5	90. SCISYS MARK V -	23 E2B5—F6E8
27 E4E5—E8A8	1-0	36 A1A3—E8A8	02 D2D4—D7D5	70 D6G6—F7F8	02 C2C4—D5C4	PRESTIGE	24 C6B7—C8C2
28 D2B2—B7B2	83. PRESTIGE - SC9	37 F4E4—E5C6	03 E4D5—E6D5	71 G6D6—F8F7			25 B5A6—C2B2
		38 E4E7—D6E7	04 F1D3—F8D6	72 D6G6—F7F8	03 E2E4—E7E5	01 E2E4—C7C6	
	01 F2F4—D7D5	39 F2F4—A8F8	05 B1C3—G8F6	73 G6H5—E1E3	04 G1F3—F8B4	02 D2D4—D7D5	1-0
30 G2C6—G6G5	02 G1F3—G8F6	40 G2G3—F8D8	06 C1G5—C8E6	74 C4C5—E3C3	05 C1D2—B4D2	03 E4E5—C8F5	
31 A8B8—D7B8	03 E2E3—G7G6	41 H2H4—A7A5	07 G1E2—E8G8	75 F5E6—F8G8	06 B1D2—E5D4	04 G1E2—E7E6	and a second second second
32 C6B5—G5F4	04 F1E2—F8G7	42 F4F5—E7F6		76 H5F5—C3C1	07 F1C4—G8H6	05 E2G3—F5G6	92. SCISYS MARK V -
33 G3F4—F7F6	05 E1G1—E8G8	43 D1F1—D4D3		77 E6E7—C1E1	08 'E1G1—C7C5	06 B1D2—F8E7	PRESTIGE
34 C5C6—B8C6	06 D2D3-C7C5	44 A3A2—C6D4	09 G5H4—B8C6	78 E7D8—E1D1	09 E4E5—C8F5	07 F1D3—C6C5	01 E2E4—E7E5
35 B5C6—F6E5	07 D1E1—B8C6	45 A2A5—D3D2	10 E1C1—D6E7	79 D8E7—D1E1	10 D1B3-D8D7	08 D3G6—H7G6	02 G1F3—B8C6
36 F4E5—G8F7	08 E1H4—B7B6		11 F2F3—C6B4		11 C4B5—B8C6	09 D2B3—C5C4	
37 C6D5—F7E7			12 A2A3—B4D3	80 E7D8—E1D1	12 A1C1—A7A6		03 C2C3—D7D5
38 D5C4—G7H6		47 A5B5—C5C4	13 D2D3—D8D7	81 D8E7—D1E1		10 B3D2—B8C6	04 D1A4—G8F6
39 G1G2—H6E3	10 F3E5—C6E5	48 F1D1—D8D7	14 H4F6—E7F6	1/2-1/2	13 B5C6—B7C6	11 D2F3—G6G5	05 F3E5—F8D6
	11 F4E5—F6D7	49 B5B4—C4C3	15 E2F4—F6G5		14 C1C5—A6A5	12 E1G1—G5G4	06 E5C6—B7C6
40 G2F3—E3G1	12 E3E4—D5E4	50 B4C4—D7D3	16 D3E3—A8E8	87. PRESTIGE - SCISYS	15 D2C4—F5E6	13 F3E1—D8B6	07 D2D3—E8G8
41 H2H3—G1E3	13 D2E4—G7E5	51 C4C8—B3D4	17 G2G3—E6F5	MARK V	16 B3A3—E6C4	14 D1G4—B6D4	08 A4C6—C8D7
42 F3E4—H7H6	14 C1H6—E7E6	52 C8F8—F6E5	18 E3D2—C7C6	01 D2D4—G8F6	17 C5C4—H6F5	15 G4G7—C6E5	09 C6B7—D5E4
43 D3B4—E7D7	15 E4G5—E5D4	53 F8E8—E5F5		02 C2C4—E7E5	18 G2G4—D7E6	16 C1H6-D4B2	10 B1D2—E4D3
44 E4D5—D7E8	16 G1H1—F8E8	54 E8F8—F5G6		03 D4E5—F6G4	19 A3A4—F5H6	17 A1B1—B2B1	11 F1D3—D8E8
45 B4C6—E8F7	17 H6G7—H7H5	55 F8C8—C3C2	20 G3G4—F5H7		20 C4D4—A8B8	18 G7H8—E8C8	12 E1F1—D7C6
46 E5E6—F7E8	18 G7D4—C5D4	56 C8C2—D4C2	21 H1H2—D7D8	04 C1F4—F8B4	21 F1C1—B8B5	19 H8E5—G8H6	
47 C6D4—E3F4	19 F1F7—D7E5		22 D2F2—D8B6	05 B1D2—D7D6	22 F3G5—E6G6		13 B7A6—E8D7
1-0		57 F2E2—D3G3	23 H2G2—F6E7	06 A2A3—D6E5		20 E5E3—H6G4	14 D2F3—C6F3
1-0	20 H4F4—E5C6	58 E2D2—C2A3	24 G4G5—E7D6	07 F4G3—B4D2	23 G5F3—G6E6	21 E3A7—B1B4	15 G2F3—D7H3
			27 G4G3—L7D0		OA FOOE FOOG	!!!!!	
00 000 PRESTICE	21 F7F6—G8G7	0-1		08 D1D2—B8C6	24 F3G5—E6G6	22 H2H3—E7C5	16 F1G1—H3F3
82. SC9 - PRESTIGE	22 A1F1—A6D3	0-1	25 F4D3—H6G5		25 G5F3—G6E6	23 C2C3—C5A7	
82. SC9 - PRESTIGE 01 E2E4—E7E6		0-1 85. PRESTIGE - SCISYS	25 F4D3—H6G5 26 H4G5—H7F5	08 D1D2—B8C6			16 F1G1—H3F3
	22 A1F1—A6D3		25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4	25 G5F3—G6E6	23 C2C3—C5A7	16 F1G1—H3F3 17 C1E3—F6G4
01 E2E4—E7E6 02 D2D4—D7D5	22 A1F1—A6D3 23 E2D3—D8E7	85. PRESTIGE - SCISYS MARK V	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6	25 G5F3—G6E6	23 C2C3—C5A7 24 C3B4—G4F2	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5	25 G5F3—G6E6	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7	85. PRESTIGE · SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8	25 G5F3—G6E6 ½-½	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE - SCISYS MARK V	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE · SCISYS MARK V 01 B2B3—D7D5	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE · SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 - PRESTIGE	85. PRESTIGE · SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE - SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 - PRESTIGE 01 C2C4—G8F6	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE · SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 - PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6	85. PRESTIGE · SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE · SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 - PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE · SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 - PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—E8E4	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE · SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 - PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—E8E4 38 F4C7—E4D4	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE · SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 - PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5 04 C4D5—E6D5 05 E4D5—F6D5	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8 11 C1F4—C8E6	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—E8E4 38 F4C7—E4D4 39 D1E3—A7B6	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE · SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1 93. PRESTIGE - SCISYS
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6 13 G5F3—D7A4	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 · PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5 04 C4D5—E6D5 05 E4D5—F6D5 06 F1B5—C7C6	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8 11 C1F4—C8E6 12 F3G5—E7G5	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—E8E4 38 F4C7—E4D4 39 D1E3—A7B6 40 C7C6—D4E4	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5 22 D1D3—B5C5	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE - SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2 08 D1E2—E7E5	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5 36 D4E5—G3D3	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1 93. PRESTIGE - SCISYS MARK V
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6 13 G5F3—D7A4 14 C1A3—B7B5 15 E1G1—D8C6	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 - PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5 04 C4D5—E6D5 05 E4D5—F6D5 06 F1B5—C7C6 07 B5C4—D5F4	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8 11 C1F4—C8E6 12 F3G5—E7G5 13 F4G5—H7H6	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—E8E4 38 F4C7—E4D4 39 D1E3—A7B6 40 C7C6—D4E4 41 E3D5—E4E5	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5 22 D1D3—B5C5 23 C1D1—F8E8 24 F2F4—G7G5	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE · SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2 08 D1E2—E7E5 09 F2F4—F8D6 10 F4E5—C6E5	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5 36 D4E5—G3D3 37 C3D1—D3F3	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1 93. PRESTIGE - SCISYS
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6 13 G5F3—D7A4 14 C1A3—B7B5 15 E1G1—D8C6 16 A3D6—E8G8	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 · PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5 04 C4D5—E6D5 05 E4D5—F6D5 06 F1B5—C7C6 07 B5C4—D5F4 08 D1F3—F8D6	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8 11 C1F4—C8E6 12 F3G5—E7G5 13 F4G5—H7H6 14 G5C1—A8D8	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—E8E4 38 F4C7—E4D4 39 D1E3—A7B6 40 C7C6—D4E4 41 E3D5—E4E5 42 C2C4—F8B8	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5 22 D1D3—B5C5 23 C1D1—F8E8 24 F2F4—G7G5 25 D1D2—C8B7	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE - SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2 08 D1E2—E7E5 09 F2F4—F8D6 10 F4E5—C6E5 11 B2E5—D6E5	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5 36 D4E5—G3D3 37 C3D1—D3F3 38 H3H4—F3F1 39 D1B2—F1B1	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1 93. PRESTIGE - SCISYS MARK V
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6 13 G5F3—D7A4 14 C1A3—B7B5 15 E1G1—D8C6 16 A3D6—E8G8 17 F1B1—A7A6	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 · PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5 04 C4D5—E6D5 05 E4D5—F6D5 06 F1B5—C7C6 07 B5C4—D5F4 08 D1F3—F8D6 09 D2D4—C8E6	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8 11 C1F4—C8E6 12 F3G5—E7G5 13 F4G5—H7H6 14 G5C1—A8D8 15 D1D8—E8D8	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—E8E4 38 F4C7—E4D4 39 D1E3—A7B6 40 C7C6—D4E4 41 E3D5—E4E5 42 C2C4—F8B8 43 G5G6—F7G6	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5 22 D1D3—B5C5 23 C1D1—F8E8 24 F2F4—G7G5 25 D1D2—C8B7 26 D3B3—B7A6	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE - SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2 08 D1E2—E7E5 09 F2F4—F8D6 10 F4E5—C6E5 11 B2E5—D6E5 12 D2D4—E5D6	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5 36 D4E5—G3D3 37 C3D1—D3F3 38 H3H4—F3F1	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1 93. PRESTIGE - SCISYS MARK V 01 D2D4—G8F6
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6 13 G5F3—D7A4 14 C1A3—B7B5 15 E1G1—D8C6 16 A3D6—E8G8 17 F1B1—A7A6 18 B1C1—A5B6	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 - PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5 04 C4D5—E6D5 05 E4D5—F6D5 06 F1B5—C7C6 07 B5C4—D5F4 08 D1F3—F8D6 09 D2D4—C8E6 10 B2B3—F4G6	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8 11 C1F4—C8E6 12 F3G5—E7G5 13 F4G5—H7H6 14 G5C1—A8D8 15 D1D8—E8D8 16 C1F4—G7G5	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—E8E4 38 F4C7—E4D4 39 D1E3—A7B6 40 C7C6—D4E4 41 E3D5—E4E5 42 C2C4—F8B8 43 G5G6—F7G6 44 C6G66—B8B7	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5 22 D1D3—B5C5 23 C1D1—F8E8 24 F2F4—G7G5 25 D1D2—C8B7 26 D3B3—B7A6 27 A3A4—C5D5	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE · SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2 08 D1E2—E7E5 09 F2F4—F8D6 10 F4E5—C6E5 11 B2E5—D6E5 12 D2D4—E5D6 13 B1C3—D6B4	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5 36 D4E5—G3D3 37 C3D1—D3F3 38 H3H4—F3F1 39 D1B2—F1B1	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1 93. PRESTIGE SCISYS MARK V 01 D2D4—G8F6 02 C2C4—C7C5
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6 13 G5F3—D7A4 14 C1A3—B7B5 15 E1G1—D8C6 16 A3D6—E8G8 17 F1B1—A7A6 18 B1C1—A5B6 19 A1B1—E7F5	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 · PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5 04 C4D5—E6D5 05 E4D5—F6D5 06 F1B5—C7C6 07 B5C4—D5F4 08 D1F3—F8D6 09 D2D4—C8E6 10 B2B3—F4G6 11 C4E6—F7E6	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8 11 C1F4—C8E6 12 F3G5—E7G5 13 F4G5—H7H6 14 G5C1—A8D8 15 D1D8—E8D8 16 C1F4—G7G5 17 F4D2—H8E8	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—E8E4 38 F4C7—E4D4 39 D1E3—A7B6 40 C7C6—D4E4 41 E3D5—E4E5 42 C2C4—F8B8 43 G5G6—F7G6 44 C6G6—B8B7 45 D5B6—B7E7	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5 22 D1D3—B5C5 23 C1D1—F8E8 24 F2F4—G7G5 25 D1D2—C8B7 26 D3B3—B7A6 27 A3A4—C5D5 28 D2C3—D5A5	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE - SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2 08 D1E2—E7E5 09 F2F4—F8D6 10 F4E5—C6E5 11 B2E5—D6E5 12 D2D4—E5D6 13 B1C3—D6B4 14 E2D3—D8E8	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5 36 D4E5—G3D3 37 C3D1—D3F3 38 H3H4—F3F1 39 D1B2—F1B1 0-1	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1 93. PRESTIGE - SCISYS MARK V 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6 13 G5F3—D7A4 14 C1A3—B7B5 15 E1G1—D8C6 16 A3D6—E8G8 17 F1B1—A7A6 18 B1C1—A5B6 19 A1B1—E7F5 20 D6A3—B6A7	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 · PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5 04 C4D5—E6D5 05 E4D5—F6D5 06 F1B5—C7C6 07 B5C4—D5F4 08 D1F3—F8D6 09 D2D4—C8E6 10 B2B3—F4G6 11 C4E6—F7E6 12 G1H3—H8F8	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8 11 C1F4—C8E6 12 F3G5—E7G5 13 F4G5—H7H6 14 G5C1—A8D8 15 D1D8—E8D8 16 C1F4—G7G5 17 F4D2—H8E8 18 A1D1—E6D7	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—E8E4 38 F4C7—E4D4 39 D1E3—A7B6 40 C7C6—D4E4 41 E3D5—E4E5 42 C2C4—F8B8 43 G5G6—F7G6 44 C6G6—B8B7 45 D5B6—B7E7 46 B2B4—E5E1	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5 22 D1D3—B5C5 23 C1D1—F8E8 24 F2F4—G7G5 25 D1D2—C8B7 26 D3B3—B7A6 27 A3A4—C5D5 28 D2C3—D5A5 29 B3B4—G5F4	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE · SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2 08 D1E2—E7E5 09 F2F4—F8D6 10 F4E5—C6E5 11 B2E5—D6E5 12 D2D4—E5D6 13 B1C3—D6B4 14 E2D3—D8E8 15 C3B5—A7A6	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5 36 D4E5—G3D3 37 C3D1—D3F3 38 H3H4—F3F1 39 D1B2—F1B1 0-1 91. PRESTIGE - SCISYS	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1 93. PRESTIGE - SCISYS MARK V 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6 13 G5F3—D7A4 14 C1A3—B7B5 15 E1G1—D8C6 16 A3D6—E8G8 17 F1B1—A7A6 18 B1C1—A5B6 19 A1B1—E7F5 20 D6A3—B6A7 21 G1H1—A6A5	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 · PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5 04 C4D5—E6D5 05 E4D5—F6D5 06 F1B5—C7C6 07 B5C4—D5F4 08 D1F3—F8D6 09 D2D4—C8E6 10 B2B3—F4G6 11 C4E6—F7E6 12 G1H3—H8F8 13 F3E4—E6E5	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8 11 C1F4—C8E6 12 F3G5—E7G5 13 F4G5—H7H6 14 G5C1—A8D8 15 D1D8—E8D8 16 C1F4—G7G5 17 F4D2—H8E8 18 A1D1—E6D7 19 F2F4—F5D4	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—E8E4 38 F4C7—E4D4 39 D1E3—A7B6 40 C7C6—D4E4 41 E3D5—E4E5 42 C2C4—F8B8 43 G5G6—F7G6 44 C6G6—B8B7 45 D5B6—B7E7 46 B2B4—E5E1 47 B1C2—E7E2	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5 22 D1D3—B5C5 23 C1D1—F8E8 24 F2F4—G7G5 25 D1D2—C8B7 26 D3B3—B7A6 27 A3A4—C5D5 28 B3B4—G5F4 30 E3F4—A5C5	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE - SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2 08 D1E2—E7E5 09 F2F4—F8D6 10 F4E5—C6E5 11 B2E5—D6E5 12 D2D4—E5D6 13 B1C3—D6B4 14 E2D3—D8E8 15 C3B5—A7A6 16 A2A3—H7H6	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5 36 D4E5—G3D3 37 C3D1—D3F3 38 H3H4—F3F1 39 D1B2—F1B1 0-1 91. PRESTIGE · SCISYS MARK V	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1 93. PRÉSTIGE - SCISYS MARK V 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6 13 G5F3—D7A4 14 C1A3—B7B5 15 E1G1—D8C6 16 A3D6—E8G8 17 F1B1—A7A6 18 B1C1—A5B6 19 A1B1—E7F5 20 D6A3—B6A7 21 G1H1—A6A5 22 C1G1—A7C7	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 F6GF7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 - PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5 04 C4D5—E6D5 05 E4D5—F6D5 06 F1B5—C7C6 07 B5C4—D5F4 08 D1F3—F8D6 10 B2B3—F4G6 11 C4E6—F7E6 12 G1H3—H8F8 13 F3E4—E6E5 14 E1G1—D6B4	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8 11 C1F4—C8E6 12 F3G5—E7G5 13 F4G5—H7H6 14 G5C1—A8D8 15 D1D8—E8D8 16 C1F4—G7G5 17 F4D2—H8E8 18 A1D1—E6D7 19 F2F4—F5D4 20 F4G5—D4C2	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—E8E4 38 F4C7—E4D4 39 D1E3—A7B6 40 C7C6—D4E4 41 E3D5—E4E5 42 C2C4—F8B8 43 G5G6—F7G6 44 C6G6—B8B7 45 D5B6—B7E7 46 B2B4—E5E1 47 B1C2—E7E2 48 C2D3—E2E3	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5 22 D1D3—B5C5 23 C1D1—F8E8 24 F2F4—G7G5 25 D1D2—C8B7 26 D3B3—B7A6 27 A3A4—C5D5 28 D2C3—D5A5 29 B3B4—G5F4 30 E3F4—A5C5 31 C3B3—C5C1	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE - SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2 08 D1E2—E7E5 09 F2F4—F8D6 10 F4E5—C6E5 11 B2E5—D6E5 12 D2D4—E5D6 13 B1C3—D6B4 14 E2D3—D8E8 15 C3B5—A7A6 16 A2A3—H7H6 17 A3B4—H6G5	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5 36 D4E5—G3D3 37 C3D1—D3F3 38 H3H4—F3F1 39 D1B2—F1B1 0-1 91. PRESTIGE · SCISYS MARK V 01 E2E4—C7C5	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1 93. PRESTIGE - SCISYS MARK V 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—C8G4
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6 13 G5F3—D7A4 14 C1A3—B7B5 15 E1G1—D8C6 16 A3D6—E8G8 17 F1B1—A7A6 18 B1C1—A5B6 19 A1B1—E7F5 20 D6A3—B6A7 21 G1H1—A6A5 22 C1G1—A7C7 23 G2G4—F5E7	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 · PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5 04 C4D5—E6D5 05 E4D5—F6D5 06 F1B5—C7C6 07 B5C4—D5F4 08 D1F3—F8D6 09 D2D4—C8E6 10 B2B3—F4G6 11 C4E6—F7E6 12 G1H3—H8F8 13 F3E4—E6E5 14 E1G1—D6B4 15 C3E2—D8D5	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8 11 C1F4—C8E6 12 F3G5—E7G5 13 F4G5—H7H6 14 G5C1—A8D8 15 D1D8—E8D8 16 C1F4—G7G5 17 F4D2—H8E8 18 A1D1—E6D7 19 F2F4—F5D4	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—E8E4 38 F4C7—E4D4 39 D1E3—A7B6 40 C7C6—D4E4 41 E3D5—E4E5 42 C2C4—F8B8 43 G5G6—F7G6 44 C6G6—B8B7 45 D5B6—B7E7 46 B2B4—E5E1 47 B1C2—E7E2	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5 22 D1D3—B5C5 23 C1D1—F8E8 24 F2F4—G7G5 25 D1D2—C8B7 26 D3B3—B7A6 27 A3A4—C5D5 28 B3B4—G5F4 30 E3F4—A5C5 31 C3B3—C5C1 32 F4F5—C1B1	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE - SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2 08 D1E2—E7E5 09 F2F4—F8D6 10 F4E5—C6E5 11 B2E5—D6E5 12 D2D4—E5D6 13 B1C3—D6B4 14 E2D3—D8E8 15 C3B5—A7A6 16 A2A3—H7H6 17 A3B4—H6G5 18 B5A3—F6G4	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5 36 D4E5—G3D3 37 C3D1—D3F3 38 H3H4—F3F1 39 D1B2—F1B1 0-1 91. PRESTIGE · SCISYS MARK V 01 E2E4—C7C5 02 G1F3—B8C6	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1 93. PRESTIGE - SCISYS MARK V 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—C8G4 08 F1C4—F8G7
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6 13 G5F3—D7A4 14 C1A3—B7B5 15 E1G1—D8C6 16 A3D6—E8G8 17 F1B1—A7A6 18 B1C1—A5B6 19 A1B1—E7F5 20 D6A3—B6A7 21 G1H1—A6A5 22 C1G1—A7C7 23 G2G4—F5E7 24 A3C1—C7B7	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 - PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5 04 C4D5—E6D5 05 E4D5—F6D5 06 F1B5—C7C6 07 B5C4—D5F4 08 D1F3—F8D6 09 D2D4—C8E6 10 B2B3—F4G6 11 C4E6—F7E6 12 G1H3—H8F8 13 F3E4—E6E5 14 E1G1—D6B4 15 C3E2—D8D5 16 E4G4—D5D7	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8 11 C1F4—C8E6 12 F3G5—E7G5 13 F4G5—H7H6 14 G5C1—A8D8 15 D1D8—E8D8 16 C1F4—G7G5 17 F4D2—H8E8 18 A1D1—E6D7 19 F2F4—F5D4 20 F4G5—D4C2	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—E8E4 38 F4C7—E4D4 39 D1E3—A7B6 40 C7C6—D4E4 41 E3D5—E4E5 42 C2C4—F8B8 43 G5G6—F7G6 44 C6G6—B8B7 45 D5B6—B7E7 46 B2B4—E5E1 47 B1C2—E7E2 48 C2D3—E2E3	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5 22 D1D3—B5C5 23 C1D1—F8E8 24 F2F4—G7G5 25 D1D2—C8B7 26 D3B3—B7A6 27 A3A4—C5D5 28 D2C3—D5A5 29 B3B4—G5F4 30 E3F4—A5C5 31 C3B3—C5C1 32 F4F5—C1B1 33 B3A3—B1B4	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE · SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2 08 D1E2—E7E5 09 F2F4—F8D6 10 F4E5—C6E5 11 B2E5—D6E5 12 D2D4—E5D6 13 B1C3—D6B4 14 E2D3—D8E8 15 C3B5—A7A6 16 A2A3—H7H6 17 A3B4—H6G5 18 B5A3—F6G4 19 H2H3—G4E3	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5 36 D4E5—G3D3 37 C3D1—D3F3 38 H3H4—F3F1 39 D1B2—F1B1 0-1 91. PRESTIGE · SCISYS MARK V 01 E2E4—C7C5 02 G1F3—B8C6 03 D2D4—C5D4	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1 93. PRÉSTIGE - SCISYS MARK V 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—C8G4 08 F1C4—F8G7 09 E1G1—E8G8
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6 13 G5F3—D7A4 14 C1A3—B7B5 15 E1G1—D8C6 16 A3D6—E8G8 17 F1B1—A7A6 18 B1C1—A5B6 19 A1B1—E7F5 20 D6A3—B6A7 21 G1H1—A6A5 22 C1G1—A7C7 23 G2G4—F5E7 24 A3C1—C7B7 25 G4G5—H6G5	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 · PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5 04 C4D5—E6D5 05 E4D5—F6D5 06 F1B5—C7C6 07 B5C4—D5F4 08 D1F3—F8D6 09 D2D4—C8E6 10 B2B3—F4G6 11 C4E6—F7E6 12 G1H3—H8F8 13 F3E4—E6E5 14 E1G1—D6B4 15 C3E2—D8D5	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8 11 C1F4—C8E6 12 F3G5—E7G5 13 F4G5—H7H6 14 G5C1—A8D8 15 D1D8—E8D8 16 C1F4—G7G5 17 F4D2—H8E8 18 A1D1—E6D7 19 F2F4—F5D4 20 F4G5—D4C2 21 G5H6—E8E5 22 H6H7—E5H5	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—E8E4 38 F4C7—E4D4 39 D1E3—A7B6 40 C7C6—D4E4 41 E3D5—E4E5 42 C2C4—F8B8 43 G5G6—F7G6 44 C6G6—B8B7 45 D5B6—B7F7 46 B2B4—E5E1 47 B1C2—E7E2 48 C2D3—E2E3 49 D3D2—E1E2 50 D2D1—E2E1	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5 22 D1D3—B5C5 23 C1D1—F8E8 24 F2F4—G7G5 25 D1D2—C8B7 26 D3B3—B7A6 27 A3A4—C5D5 28 D2C3—D5A5 29 B3B4—G5F4 30 E3F4—A5C5 31 C3B3—C5C1 32 F4F5—C1B1 33 B3A3—B1B4 34 A3B4—E8B8	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE - SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2 08 D1E2—E7E5 09 F2F4—F8D6 10 F4E5—C6E5 11 B2E5—D6E5 12 D2D4—E5D6 13 B1C3—D6B4 14 E2D3—D8E8 15 C3B5—A7A6 16 A2A3—H7H6 17 A3B4—H6G5 18 B5A3—F6G4 19 H2H3—G4E3 20 F1F3—E3G2	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5 36 D4E5—G3D3 37 C3D1—D3F3 38 H3H4—F3F1 39 D1B2—F1B1 0-1 91. PRESTIGE · SCISYS MARK V 01 E2E4—C7C5 02 G1F3—B8C6 03 D2D4—C5D4 04 F3D4—G8F6	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1 93. PRESTIGE - SCISYS MARK V 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—C8G4 08 F1C4—F8G7 09 E1G1—E8G8 10 H2H3—G4F3
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6 13 G5F3—D7A4 14 C1A3—B7B5 15 E1G1—D8C6 16 A3D6—E8G8 17 F1B1—A7A6 18 B1C1—A5B6 19 A1B1—E7F5 20 D6A3—B6A7 21 G1H1—A6A5 22 C1G1—A7C7 23 G2G4—F5E7 24 A3C1—C7B7 25 G4G5—H6G5 26 F3G5—E7F5	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 - PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5 04 C4D5—E6D5 05 E4D5—F6D5 06 F1B5—C7C6 07 B5C4—D5F4 08 D1F3—F8D6 09 D2D4—C8E6 10 B2B3—F4G6 11 C4E6—F7E6 12 G1H3—H8F8 13 F3E4—E6E5 14 E1G1—D6B4 15 C3E2—D8D5 16 E4G4—D5D7	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8 11 C1F4—C8E6 12 F3G5—E7G5 13 F4G5—H7H6 14 G5C1—A8D8 15 D1D8—E8D8 16 C1F4—G7G5 17 F4D2—H8E8 18 A1D1—E6D7 19 F2F4—F5D4 20 F4G5—D4C2 21 G5H6—E8E5 22 H6H7—E5H5 23 D2G5—D8C8	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—EBE4 38 F4C7—E4D4 39 D1E3—A7B6 40 C7C6—D4E4 41 E3D5—E4E5 42 C2C4—F8B8 43 G5G6—F7G6 44 C6G6—B8B7 45 D5B6—B7E7 46 B2B4—E5E1 47 B1C2—E7E2 48 C2D3—E2E3 49 D3D2—E1E2 50 D2D1—E2E1 51 D1D2—E1E2	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5 22 D1D3—B5C5 23 C1D1—F8E8 24 F2F4—G7G5 25 D1D2—C8B7 26 D3B3—B7A6 27 A3A4—C5D5 28 D2C3—D5A5 29 B3B4—G5F4 30 E3F4—A5C5 31 C3B3—C5C1 32 F4F5—C1B1 33 B3A3—B1B4	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE · SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2 08 D1E2—E7E5 09 F2F4—F8D6 10 F4E5—C6E5 11 B2E5—D6E5 12 D2D4—E5D6 13 B1C3—D6B4 14 E2D3—D8E8 15 C3B5—A7A6 16 A2A3—H7H6 17 A3B4—H6G5 18 B5A3—F6G4 19 H2H3—G4E3 20 F1F3—E3G2 21 G1G2—H8H4	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5 36 D4E5—G3D3 37 C3D1—D3F3 38 H3H4—F3F1 39 D1B2—F1B1 0-1 91. PRESTIGE · SCISYS MARK V 01 E2E4—C7C5 02 G1F3—B8C6 03 D2D4—C5D4 04 F3D4—G8F6 05 B1C3—E7E5	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1 93. PRESTIGE - SCISYS MARK V 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—C8G4 08 F1C4—F8G7 09 E1G1—E8G8 10 H2H3—G4F3 11 D1F3—B8D7
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6 13 G5F3—D7A4 14 C1A3—B7B5 15 E1G1—D8C6 16 A3D6—E8G8 17 F1B1—A7A6 18 B1C1—A5B6 19 A1B1—E7F5 20 D6A3—B6A7 21 G1H1—A6A5 22 C1G1—A7C7 23 G2G4—F5E7 24 A3C1—C7B7 25 G4G5—H6G5	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 · PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5 04 C4D5—E6D5 06 F1B5—C7C6 07 B5C4—D5F4 08 D1F3—F8D6 09 D2D4—C8E6 10 B2B3—F4G6 11 C4E6—F7E6 12 G1H3—H8F8 13 F3E4—E6E5 14 E1G1—D6B4 15 C3E2—D8D5 16 E4G4—D5D7 17 G4H5—E5D4	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8 11 C1F4—C8E6 12 F3G5—E7G5 13 F4G5—H7H6 14 G5C1—A8D8 15 D1D8—E8D8 16 C1F4—G7G5 17 F4D2—H8E8 18 A1D1—E6D7 19 F2F4—F5D4 20 F4G5—D4C2 21 G5H6—E8E5 22 H6H7—E5H5 23 D2G5—D8C8 24 C3E4—H5H7	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—E8E4 38 F4C7—E4D4 39 D1E3—A7B6 40 C7C6—D4E4 41 E3D5—E4E5 42 C2C4—F8B8 43 G5G6—F7G6 44 C6G6—B8B7 45 D5B6—B7E7 46 B2B4—E5E1 47 B1C2—E7E2 48 C2D3—E2E3 49 D3D2—E1E2 50 D2D1—E2E1 51 D1D2—E1E2 52 D2D1—E2E1	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5 22 D1D3—B5C5 23 C1D1—F8E8 24 F2F4—G7G5 25 D1D2—C8B7 26 D3B3—B7A6 27 A3A4—C5D5 28 D2C3—D5A5 29 B3B4—G5F4 30 E3F4—A5C5 31 C3B3—C5C1 32 F4F5—C1B1 33 B3A3—B1B4 34 A3B4—E8B8	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE - SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2 08 D1E2—E7E5 09 F2F4—F8D6 10 F4E5—C6E5 11 B2E5—D6E5 12 D2D4—E5D6 13 B1C3—D6B4 14 E2D3—D8E8 15 C3B5—A7A6 16 A2A3—H7H6 17 A3B4—H6G5 18 B5A3—F6G4 19 H2H3—G4E3 20 F1F3—E3G2	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5 36 D4E5—G3D3 37 C3D1—D3F3 38 H3H4—F3F1 39 D1B2—F1B1 0-1 91. PRESTIGE · SCISYS MARK V 01 E2E4—C7C5 02 G1F3—B8C6 03 D2D4—C5D4 04 F3D4—G8F6 05 B1C3—E7E5 06 D4B5—D7D6	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1 93. PRESTIGE - SCISYS MARK V 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—C8G4 08 F1C4—F8G7 09 E1G1—E8G8 10 H2H3—G4F3 11 D1F3—B8D7 12 C1F4—D8B6
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6 13 G5F3—D7A4 14 C1A3—B7B5 15 E1G1—D8C6 16 A3D6—E8G8 17 F1B1—A7A6 18 B1C1—A5B6 19 A1B1—E7F5 20 D6A3—B6A7 21 G1H1—A6A5 22 C1G1—A7C7 23 G2G4—F5E7 24 A3C1—C7B7 25 G4G5—H6G5 26 F3G5—E7F5	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 - PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5 04 C4D5—E6D5 05 E4D5—F6D5 06 F1B5—C7C6 07 B5C4—D5F4 08 D1F3—F8D6 10 B2B3—F4G6 11 C4E6—F7E6 12 G1H3—H8F8 13 F3E4—E6E5 14 E1G1—D6B4 15 C3E2—D8D5 16 E4G4—D5D7 17 G4H5—E5D4 18 H5H7—F8F6	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8 11 C1F4—C8E6 12 F3G5—E7G5 13 F4G5—H7H6 14 G5C1—A8D8 15 D1D8—E8D8 16 C1F4—G7G5 17 F4D2—H8E8 18 A1D1—E6D7 19 F2F4—F5D4 20 F4G5—D4C2 21 G5H6—E8E5 22 H6H7—E5H5 23 D2G5—D8C8 24 C3E4—H5H7 25 D1D7—C8D7	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—E8E4 38 F4C7—E4D4 39 D1E3—A7B6 40 C7C6—D4E4 41 E3D5—E4E5 42 C2C4—F8B8 43 G5G6—F7G6 44 C6G6—B8B7 45 D5B6—B7E7 46 B2B4—E5E1 47 B1C2—E7E2 48 C2D3—E2E3 49 D3D2—E1E2 50 D2D1—E2E1 51 D1D2—E1E2 52 D2D1—E2E1 53 D1C2—E3E2	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5 22 D1D3—B5C5 23 C1D1—F8E8 24 F2F4—G7G5 25 D1D2—C8B7 26 D3B3—B7A6 27 A3A4—C5D5 28 D2C3—D5A5 29 B3B4—G5F4 30 E3F4—A5C5 31 C3B3—C5C1 32 F4F5—C1B1 33 B3A3—B1B4 34 A3B4—E8B8	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE · SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2 08 D1E2—E7E5 09 F2F4—F8D6 10 F4E5—C6E5 11 B2E5—D6E5 12 D2D4—E5D6 13 B1C3—D6B4 14 E2D3—D8E8 15 C3B5—A7A6 16 A2A3—H7H6 17 A3B4—H6G5 18 B5A3—F6G4 19 H2H3—G4E3 20 F1F3—E3G2 21 G1G2—H8H4	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5 36 D4E5—G3D3 37 C3D1—D3F3 38 H3H4—F3F1 39 D1B2—F1B1 0-1 91. PRESTIGE · SCISYS MARK V 01 E2E4—C7C5 02 G1F3—B8C6 03 D2D4—C5D4 04 F3D4—G8F6 05 B1C3—E7E5 06 D4B5—D7D6 07 C3D5—F6D5	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1 93. PRESTIGE - SCISYS MARK V 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—C8G4 08 F1C4—F8G7 09 E1G1—E8G8 10 H2H3—G4F3 11 D1F3—B8D7 12 C1F4—D8B6 13 C3B5—A7A6
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6 13 G5F3—D7A4 14 C1A3—B7B5 15 E1G1—D8C6 16 A3D6—E8G8 17 F1B1—A7A6 18 B1C1—A5B6 19 A1B1—E7F5 20 D6A3—B6A7 21 G1H1—A6A5 22 C1G1—A7C7 23 G2G4—F5E7 24 A3C1—C7B7 25 G4G5—H6G5 26 F3G5—E7F5 27 E2H5—C6E7	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 · PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5 04 C4D5—E6D5 05 E4D5—F6D5 06 F1B5—C7C6 07 B5C4—D5F4 08 D1F3—F8D6 09 D2D4—C8E6 10 B2B3—F4G6 11 C4E6—F7E6 12 G1H3—H8F8 13 F3E4—E6E5 14 E1G1—D6B4 15 C3E2—D8D5 16 E4G4—D5D7 17 G4H5—E5D4 18 H5H7—F8F6 19 C1G5—F6E6	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8 11 C1F4—C8E6 12 F3G5—E7G5 13 F4G5—H7H6 14 G5C1—A8D8 15 D1D8—E8D8 16 C1F4—G7G5 17 F4D2—H8E8 18 A1D1—E6D7 19 F2F4—F5D4 20 F4G5—D4C2 21 G5H6—E8E5 22 H6H7—E5H5 23 D2G5—D8C8 24 C3E4—H5H7 25 D1D7—C8D7 26 E4F6—D7D6	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—E8E4 38 F4C7—E4D4 39 D1E3—A7B6 40 C7C6—D4E4 41 E3D5—E4E5 42 C2C4—F8B8 43 G5G6—F7G6 44 C6G6—B8B7 45 D5B6—B7E7 46 B2B4—E5E1 47 B1C2—E7E2 48 C2D3—E2E3 49 D3D2—E1E2 50 D2D1—E2E1 51 D1D2—E1E2 52 D2D1—E2E1 53 D1C2—E3E2 54 C2B3—E2E3	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5 22 D1D3—B5C5 23 C1D1—F8E8 24 F2F4—G7G5 25 D1D2—C8B7 26 D3B3—B7A6 27 A3A4—C5D5 28 D2C3—D5A5 29 B3B4—G5F4 30 E3F4—A5C5 31 C3B3—C5C1 32 F4F5—C1B1 33 B3A3—B1B4 34 A3B4—E8B8 35 B4C4—B8F8	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE - SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2 08 D1E2—E7E5 09 F2F4—F8D6 10 F4E5—C6E5 11 B2E5—D6E5 12 D2D4—E5D6 13 B1C3—D6B4 14 E2D3—D8E8 15 C3B5—A7A6 16 A2A3—H7H6 17 A3B4—H6G5 18 B5A3—F6G4 19 H2H3—G4E3 20 F1F3—E3G2 21 G1G2—H8H4 22 D3F5—D7F5	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5 36 D4E5—G3D3 37 C3D1—D3F3 38 H3H4—F3F1 39 D1B2—F1B1 0-1 91. PRESTIGE · SCISYS MARK V 01 E2E4—C7C5 02 G1F3—B8C6 03 D2D4—C5D4 04 F3D4—G8F6 05 B1C3—E7E5 06 D4B5—D7D6 07 C3D5—F6D5 08 E4D5—C6B8	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1 93. PRESTIGE - SCISYS MARK V 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—C8G4 08 F1C4—F8G7 09 E1G1—E8G8 10 H2H3—G4F3 11 D1F3—B8D7 12 C1F4—D8B6 13 C3B5—A7A6 14 B5D6—F6E8
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6 13 G5F3—D7A4 14 C1A3—B7B5 15 E1G1—D8C6 16 A3D6—E8G8 17 F1B1—A7A6 18 B1C1—A5B6 19 A1B1—E7F5 20 D6A3—B6A7 21 G1H1—A6A5 22 C1G1—A7C7 23 G2G4—F5E7 24 A3C1—C7B7 25 G4G5—H6G5 26 F3G5—E7F5 27 E2H5—C6E7 28 C1D1—F5H4 29 D2C1—B7C7	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 · PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5 04 C4D5—E6D5 05 E4D5—F6D5 06 F1B5—C7C6 07 B5C4—D5F4 08 D1F3—F8D6 09 D2D4—C8E6 10 B2B3—F4G6 11 C4E6—F7E6 12 G1H3—H8F8 13 F3E4—E6E5 14 E1G1—D6B4 15 C3E2—D8D5 16 E4G4—D5D7 17 G4H5—E5D4 18 H5H7—F8F6 19 C1G5—F6E6 20 F1D1—C6C5 21 H3F4—G6F8	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8 11 C1F4—C8E6 12 F3G5—E7G5 13 F4G5—H7H6 14 G5C1—A8D8 15 D1D8—E8D8 16 C1F4—G7G5 17 F4D2—H8E8 18 A1D1—E6D7 19 F2F4—F5D4 20 F4G5—D4C2 21 G5H6—E8E5 22 H6H7—E5H5 23 D2G5—D8C8 24 C3E4—H5H7 25 D1D7—C8D7 26 E4F6—D7D6 27 G5F4—D6C5	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—EBE4 38 F4C7—E4D4 39 D1E3—A7B6 40 C7C6—D4E4 41 E3D5—E4E5 42 C2C4—F8B8 43 G5G6—F7G6 44 C6G6—B8B7 45 D5B6—B7E7 46 B2B4—E5E1 47 B1C2—E7E2 48 C2D3—E2E3 49 D3D2—E1E2 50 D2D1—E2E1 51 D1D2—E1E2 52 D2D1—E2E1 53 D1C2—E3E2 54 C2B3—E2E3 55 B3A4—E1A1	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5 22 D1D3—B5C5 23 C1D1—F8E8 24 F2F4—G7G5 25 D1D2—C8B7 26 D3B3—B7A6 27 A3A4—C5D5 28 D2C3—D5A5 29 B3B4—G5F4 30 E3F4—A5C5 31 C3B3—C5C1 32 F4F5—C1B1 33 B3A3—B1B4 34 A3B4—E8B8 35 B4C4—B8F8 36 E5D7—F8F7 37 D7C5—A6B6	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE - SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2 08 D1E2—E7E5 09 F2F4—F8D6 10 F4E5—C6E5 11 B2E5—D6E5 12 D2D4—E5D6 13 B1C3—D6B4 14 E2D3—D8E8 15 C3B5—A7A6 16 A2A3—H7H6 17 A3B4—H6G5 18 B5A3—F6G4 19 H2H3—G4E3 20 F1F3—E3G2 21 G1G2—H8H4 22 D3F5—D7F5 23 F3F5—H4D4 24 F5F7—G5G4	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5 36 D4E5—G3D3 37 C3D1—D3F3 38 H3H4—F3F1 39 D1B2—F1B1 0-1 91. PRESTIGE · SCISYS MARK V 01 E2E4—C7C5 02 G1F3—B8C6 03 D2D4—C5D4 04 F3D4—G8F6 05 B1C3—E7E5 06 D4B5—D7D6 07 C3D5—F6D5	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1 93. PRESTIGE - SCISYS MARK V 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—C8G4 08 F1C4—F8G7 09 E1G1—E8G8 10 H2H3—G4F3 11 D1F3—B8D7 12 C1F4—D8B6 13 C3B5—A7A6 14 B5D6—F6E8 15 D6E8—A8E8
01 E2E4—E7E6 02 D2D4—D7D5 03 B1C3—F8B4 04 E4E5—C7C5 05 A2A3—B4C3 06 B2C3—G8E7 07 A3A4—B8C6 08 G1F3—D8A5 09 C1D2—C8D7 10 F1E2—C5C4 11 F3G5—C6D8 12 D1C1—H7H6 13 G5F3—D7A4 14 C1A3—B7B5 15 E1G1—D8C6 16 A3D6—E8G8 17 F1B1—A7A6 18 B1C1—A5B6 19 A1B1—E7F5 20 D6A3—B6A7 21 G1H1—A6A5 22 C1G1—A7C7 23 G2G4—F5E7 24 A3C1—C7B7 25 G4G5—H6G5 26 F3G5—E7F5 27 E2H5—C6E7 28 C1D1—F5H4 29 D2C1—B7C7	22 A1F1—A6D3 23 E2D3—D8E7 24 F6G6—G7H8 25 G5F7—E7F7 26 G6H6—F7H7 27 F4F6—H8G8 28 D3H7—1-0 84. SC9 · PRESTIGE 01 C2C4—G8F6 02 B1C3—E7E6 03 E2E4—D7D5 04 C4D5—E6D5 05 E4D5—F6D5 06 F1B5—C7C6 07 B5C4—D5F4 08 D1F3—F8D6 09 D2D4—C8E6 10 B2B3—F4G6 11 C4E6—F7E6 12 G1H3—H8F8 13 F3E4—E6E5 14 E1G1—D6B4 15 C3E2—D8D5 16 E4G4—D5D7 17 G4H5—E5D4 18 H5H7—F8F6 19 C1G5—F6E6	85. PRESTIGE - SCISYS MARK V 01 E2E4—E7E5 02 G1F3—B8C6 03 F1B5—G8F6 04 E1G1—F6E4 05 D2D4—E4D6 06 B5C6—D7C6 07 D4E5—D6F5 08 D1D8—E8D8 09 B1C3—F8E7 10 F1D1—D8E8 11 C1F4—C8E6 12 F3G5—E7G5 13 F4G5—H7H6 14 G5C1—A8D8 15 D1D8—E8D8 16 C1F4—G7G5 17 F4D2—H8E8 18 A1D1—E6D7 19 F2F4—F5D4 20 F4G5—D4C2 21 G5H6—E8E5 22 H6H7—E5H5 23 D2G5—D8C8 24 C3E4—H5H7 25 D1D7—C8D7 26 E4F6—D7D6	25 F4D3—H6G5 26 H4G5—H7F5 27 C3A4—B6B5 28 A4C3—B5A5 29 D3C5—D6F4 30 C1B1—F5H3 31 C5B7—A5B6 32 B7C5—F4E3 33 F2G3—H3G2 34 C5D7—G2F3 35 D7B6—F3D1 36 C3D1—E3F4 37 G3F4—E8E4 38 F4C7—E4D4 39 D1E3—A7B6 40 C7C6—D4E4 41 E3D5—E4E5 42 C2C4—F8B8 43 G5G6—F7G6 44 C6G6—B8B7 45 D5B6—B7E7 46 B2B4—E5E1 47 B1C2—E7E2 48 C2D3—E2E3 49 D3D2—E1E2 50 D2D1—E2E1 51 D1D2—E1E2 52 D2D1—E2E1 53 D1C2—E3E2 54 C2B3—E2E3	08 D1D2—B8C6 09 D2D8—E8D8 10 G1F3—E5E4 11 F3G5—C8E6 12 E2E3—G4E5 13 E1C1—D8C8 14 B2B4—E6C4 15 B4B5—C4F1 16 H1F1—E5D3 17 D1D3—E4D3 18 B5C6—A8B8 19 G5F7—H8F8 20 F7E5—B7C6 21 F1D1—B8B5 22 D1D3—B5C5 23 C1D1—F8E8 24 F2F4—G7G5 25 D1D2—C8B7 26 D3B3—B7A6 27 A3A4—C5D5 28 D2C3—D5A5 29 B3B4—G5F4 30 E3F4—A5C5 31 C3B3—C5C1 32 F4F5—C1B1 33 B3A3—B1B4 34 A3B4—E8B8 35 E5D7—F8F7 37 D7C5—A6B6	25 G5F3—G6E6 1/2-1/2 89. PRESTIGE - SCISYS MARK V 01 B2B3—D7D5 02 C1B2—G8F6 03 E2E3—C8G4 04 F1E2—D8D7 05 G1F3—B8C6 06 E1G1—E8C8 07 F3G5—G4E2 08 D1E2—E7E5 09 F2F4—F8D6 10 F4E5—C6E5 11 B2E5—D6E5 12 D2D4—E5D6 13 B1C3—D6B4 14 E2D3—D8E8 15 C3B5—A7A6 16 A2A3—H7H6 17 A3B4—H6G5 18 B5A3—F6G4 19 H2H3—G4E3 20 F1F3—E3G2 21 G1G2—H8H4 22 D3F5—D7F5 23 F3F5—H4D4	23 C2C3—C5A7 24 C3B4—G4F2 25 F1F2—A7F2 26 G1F2—D5D4 27 E1F3—D4D3 28 G3E4—F7F5 29 E4C3—C8B8 30 F2E3—D8G8 31 E3D4—G8G2 32 D4C4—G2G3 33 F3E5—D3D2 34 E5D3—B7B5 35 C4D4—E6E5 36 D4E5—G3D3 37 C3D1—D3F3 38 H3H4—F3F1 39 D1B2—F1B1 0-1 91. PRESTIGE · SCISYS MARK V 01 E2E4—C7C5 02 G1F3—B8C6 03 D2D4—C5D4 04 F3D4—G8F6 05 B1C3—E7E5 06 D4B5—D7D6 07 C3D5—F6D5 08 E4D5—C6B8	16 F1G1—H3F3 17 C1E3—F6G4 18 D3E2—F3H3 19 E2G4—H3G4 20 G1F1—F8B8 21 B2B4—G4F3 22 F1G1—F3F6 23 G1G2—F6C3 24 A2A3—C3E5 25 E3A7—E5D5 26 G2G1—B8B7 27 A6E2—B7A7 0-1 93. PRESTIGE - SCISYS MARK V 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—C8G4 08 F1C4—F8G7 09 E1G1—E8G8 10 H2H3—G4F3 11 D1F3—B8D7 12 C1F4—D8B6 13 C3B5—A7A6 14 B5D6—F6E8

17 F4E5—G7E5	29 G2F3—D2B2	11 F3E5—C6E5	79 G2C6—E8D6				
18 F1D1—B6B4	30 A2A4—B2B3	12 F4E5—F6E8	80 G1H2—E3F2	05 B1C3-A7A6	31 A5E1-E5A1	101. PHILIDOR -	33 B2A2—B8A8
19 F3B3—B7B5	31 F3F2—B3B4	13 D1D2—H7H6	81 H2H3—F2E3	06 C1G5—E7E6	32 F2F4-A1B1	PRESTIGE	34 C3B5—F5D7
20 B3B4—C5B4	32 E2D3—B4A4	14 E3F2—E7G5	82 H3G4—E3D4	07 F2F4—D8C7	33 E1D2—F5D4	01 C2C4—C7C5	35 A2A1—D7B5
21 C4F1—F7F5	33 F2F3-G8F8	15 D2D3—G4F5	83 G4F4—D4C4	08 F1E2—F8E7	34 B3B4—C5B4	02 G1F3—G8F6	36 C4B5—E8D6
22 E4F5-F8F5	34 G3G4-A4A1	16 E2E4—F5G6	84 F4E5—C4C5	09 E1G1—E8G8	35 A3B4-D4C2	03 B1C3—D7D5	37 B5C6—A8B8
23 D5D6—E8D8	35 D3C4-A1C1	17 F2E3—G5E3	85 C6D7—D6C4	10 F4F5—E6F5	36 F1E2-E7B4	04 D2D3—D5D4	38 A1A5—B8B3
24 D6D7—F5F2	36 C4D5-B7B6	18 D3E3-D5E4	86 E5E6—C4B6	11 E4F5—B8D7	37 D2D1-B4C5	05 C3B5—C8D7	39 G1F1—B3B1
25 D1D5—F7E7	37 H2H4—C1C5	19 C3E4—A8D8	1-0	12 D1D2-B7B5	38 H2H3-B1B5	06 D1A4—A7A6	40 F1E2—B1B2
26 F2F4—E5F4	38 D5B7—C5B5	20 C2C3—C6E4		13 D2E3—D7E5	39 D1D3-C2D4	07 F3E5—B8C6	41 E2F3—B2B3
27 B1D1—F4E5	0-1	21 E3E4—C7C6	97.PHILIDOR - PRESTIGE	14 G5F6—E7F6	40 E2D2—C5B4	08 E5D7—F6D7	42 F3G4—F7F5
28 B2B3—E5B8		22 F1F2—F7F5	01 E2E4—E7E5	15 C3D5—C7D8	41 D2E3—D4F5	09 B5A3—D7B6	43 G4F4—B3B4
29 D1D2—B8F4		23 E4C2—B7B5	02 G1F3—B8C6	16 A2A4—B5A4	42 D3F5—E6F5	10 A4D1—E7E5	44 F4G3—D6E4
30 D2D3—F4E3	95. PHILIDOR -	24 A2A4—D7B7	03 F1B5—A7A6	17 A1A4—F6H4	0-1	11 G2G3—F8E7	45 G3F3—B4B2
31 G1H2—E3F4	PRESTIGE	25 C2B3—E8C7	04 B5C6—D7C6	18 E3B3—A6A5		12 F1G2—E8G8	46 F3E3—E4F2
32 G2G3—F4C7	01 E2E4—C7C6	26 A4B5—B7B5	05 B1C3—F7F6	19 A4A1—F8E8		13 E1G1—D8C7	47 A5A8—G8G7
33 H2H1—E7E1	02 D2D4—D7D5	27 B3B5—C6B5	06 D2D4—E5D4	20 G2G3—H4G5	100. PRESTIGE -	14 C1D2—F7F5	48 D5D6—F2G4
34 D3D1—E1D1	03 E4E5—C8F5	28 A1A5—F8F7	07 D1D4—D8D4	21 E2B5—E8F8	PHILIDOR	15 A1B1—F5F4	49 E3F4—B2B4
35 D5D1—C7G3	04 F1D3-E7E6	29 G2C6—D8B8	08 F3D4—C8D7	22 G1G2—C8B7	01 G1F3—G8F6	16 G3G4-A6A5	50 F4G3—G4E5
36 H1G2—G3C7	05 D3F5-E6F5	30 A5A2—B8D8	09 E1G1—F8D6	23 D4F3—E5F3	02 G2G3—G7G6	17 A3B5—C7D7	51 C6D5—B4D4
37 F1E2—G8G7	06 G1F3-B8A6	31 G1G2—G7G5	10 C1E3—G8E7	24 F1F3—A8C8	03 F1G2—F8G7	18 G2F3—C6B4	52 A8A5—G7H6
38 E2G4—D8F8	07 E1G1-F8E7	32 A2A5—D8B8	11 F2F4—E8G8	25 C2C3—B7D5	04 E1G1-E8G8	19 A2A3—B4C6	53 D5E6—D4D3
39 D1D4—A6A5	08 B1C3-G7G5	33 A5A1—B8B6	12 F4F5—C6C5	26 B3D5—D8B6	05 D2D3-D7D5	20 B1C1-A5A4	54 G3F4—E5G4
40 G4E2—C7B6	09 C1E3-F5F4	34 C6F3—G5G4	13 D4E6—D7E6	27 C3C4—C8C5	06 B1D2—C8F5	21 D1E1—E5E4	55 D6D7—D3D4
41 D4D2—F8F2	10 E3D2—G8H6	35 F3E2—F7D7	14 F5E6—E7C6	28 D5D3—C5E5	07 C2C4—F5G4	22 F3E4—D7G4	56 F4F3—G4H2
42 G2G3—F2F8	11 A2A3—H8G8	36 A1A7—B5B4	15 C3A4—C6D4	29 A1D1—F8D8	08 D1B3—B7B6	23 G1H1—G4H3	57 F3E2—D4D6 58 A5D5—D6D7
43 E2B5—G7H6 44 B5C6—B6C7	12 B2B4—H6F5	37 D4D5—E6D5	16 E3D4—C5D4	30 H2H3—G5E3	09 C4D5—F6D5	24 B5C7—F4F3	59 D5D7—1-0
45 · G3G2—G6G5	13 C3E2—G5G4	38 F2F5—B4C3	17 F1F5—F8E8	31 F5F6—G7G6	10 H2H3—G4F3	25 F1G1—E7D6	39 5557 — 1-0
46 C6F3—H6G6	14 F3E1—F4F3	39 B2C3—B6G6	18 A1D1—D6E5 19 A4C5—B7B6	32 G2H2—E5E6	11 D2F3—B8C6	26 E4D5—B6D5	103. PHILIDOR -
47 F3D5—H7H5	15 G2F3—G4F3	40 F5F4—H6H5 41 E2D3—G6B6	20 C5B3—C7C5	33 D1E1—E3D4 34 E1E6—F7E6	12 C1D2—D8D7	27 G1G7—G8G7	PRESTIGE
48 D2C2—C7D8	16 E2G3—F5D4	42 D3C2—D7E7	21 C2C3—A8D8	35 D3E4—G8F7	13 E2E4—D5F6	28 C7E6—H3E6	01 D2D4—G8F6
49 D5E4-G6H6	17 E1F3—D4F5	43 F4F5—B6B2	22 C3D4—C5D4	36 E4F4—D4B2	14 E4E5—F6D5	0-1	02 C2C4-G7G6
50 C2C6—F8F6	18 F1E1—D8B6 19 D2F4—G8G4	44 F5F2—B2B6	23 D1D3—E8E6	37 F4H6—B6G1	15 A1C1—E7E6 16 D3D4—F8D8		03 B1C3-F8G7
51 C6C8—F6F8	20 D1D2—A6C7	45 F2E2—B6E6	24 A2A4—E6C6	1-0	17 B3C4—C6E7	102. PRESTIGE -	04 E2E4—D7D6
52 E4F3—H6G6	ZU DIDZ—AUCI						
32 E4F3—H0G0	21 A1D1—C7F6	46 C2D3—E6C6	25 G2G3—A6A5				05 F1E2—E8G8
1/2-1/2	21 A1D1—C7E6 22 F4E3—D5D4	46 C2D3—E6C6 47 E2E3—G8F8	25 G2G3—A6A5 26 B3D2—C6C2	OO PHILIDOR.	18 F3G5—B6B5	PHILIDOR	06 C1G5—C7C5
1/2 - 1/2	22 F4E3-D5D4	47 E2E3—G8F8 48 D3F1—C6E6	26 B3D2—C6C2 27 B2B3—C2C3	99. PHILIDOR -		PHILIDOR 01 D2D4—G8F6	06 C1G5—C7C5 07 D4D5—E7E6
1/2 - 1/2 94. SCISYS MARK V -	22 F4E3—D5D4 23 E3H6—B6B5	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3	PRESTIGE	18 F3G5—B6B5 19 C4D3—B5B4	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6
1/2-1/2 94. SCISYS MARK V - PRESTIGE	22 F4E3—D5D4 23 E3H6—B6B5	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7	PRESTIGE 01 E2E4—E7E6	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6
1/2-1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8
1/2 - 1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4 — C7C5 02 B1C3 — B8C6	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8
1/2-1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5
1/2-1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4−C7C5 02 B1C3−B8C6 03 D2D3−G8F6 04 C1E3−E7E6	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6
94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3
1/2 - 1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—66D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3
1/2-1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3
94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6 08 G2G3—E8G8	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8 33 H6C1—A3C5	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3 58 G2H3—C7B5	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6 37 C4D2—D8D5	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6 08 G1F3—C6C5	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5 30 D5C6—E8F8	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3 12 A2B3—F6E8	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3 16 E1F1—E6C4
94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6 08 G2G3—E8G8 09 F1G2—H7H6	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8 33 H6C1—A3C5 34 F2F7—C5E5	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6 37 C4D2—D8D5	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6 08 G1F3—C6C5 09 D4F4—A8B8 10 E1G1—G8H6 11 B1C3—F8E7	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5 30 D5C6—E8F8 31 C6E4—D8E8	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3 12 A2B3—F6E8 13 E4E5—G7E5	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3 16 E1F1—E6C4 17 A1B1—B7B6 18 E2C4—C3C4 19 D1E2—C4E2
94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6 08 G2G3—E8G8	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8 33 H6C1—A3C5 34 F2F7—C5E5 35 F1G1—D8F8	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3 58 G2H3—C7B5 59 B1D3—B5C3	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6 37 C4D2—D8D5 38 D2E4—G4F5	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6 08 G1F3—C6C5 09 D4F4—A8B8 10 E1G1—G8H6 11 B1C3—F8E7 12 B2B3—B8B4	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5 30 D5C6—E8F8 31 C6E4—D8E8 32 E4G2—H7H6	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3 12 A2B3—F6E8 13 E4E5—G7E5 14 F3E5—D6E5	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3 16 E1F1—E6C4 17 A1B1—B7B6 18 E2C4—C3C4 19 D1E2—C4E2 20 G1E2—D8D6
1/2 - 1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6 08 G2G3—E8G8 09 F1G2—H7H6 10 G5F6—D8F6	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8 33 H6C1—A3C5 34 F2F7—C5E5 35 F1G1—D8F8 36 C1F4—E5F4	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3 58 G2H3—C7B5 59 B1D3—B5C3 60 D3F5—H6G5	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6 37 C4D2—D8D5 38 D2E4—G4F5 39 E4C3—D5D8	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6 08 G1F3—C6C5 09 D4F4—A8B8 10 E1G1—G8H6 11 B1C3—F8E7 12 B2B3—B8B4 13 F4G3—H6F5	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5 30 D5C6—E8F8 31 C6E4—D8E8 32 E4G2—H7H6 33 F1D1—G8H7	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3 12 A2B3—F6E8 13 E4E5—G7E5 14 F3E5—D6E5	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3 16 E1F1—E6C4 17 A1B1—B7B6 18 E2C4—C3C4 19 D1E2—C4E2 20 G1E2—D8D6 21 H2H4—D6D2
1/2-1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6 08 G2G3—E8G8 09 F1G2—H7H6 10 G5F6—D8F6 11 F2F4—E6E5	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8 33 H6C1—A3C5 34 F2F7—C5E5 35 F1G1—D8F8 36 C1F4—E5F4 37 F7H7—G6H6	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3 58 G2H3—C7B5 59 B1D3—B5C3 60 D3F5—H6G5 61 E3F3—C6H6	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6 37 C4D2—D8D5 38 D2E4—G4F5 39 E4C3—D5D8 40 C3B5—F5E4 41 D3D2—C7E5 42 B5C3—E4E3	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6 08 G1F3—C6C5 09 D4F4—A8B8 10 E1G1—G8H6 11 B1C3—F8E7 12 B2B3—B8B4 13 F4G3—H6F5 14 G3H3—G7G5	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5 30 D5C6—E8F8 31 C6E4—D8E8 32 E4G2—H7H6 33 F1D1—G8H7 34 G1H2—H6H5	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3 12 A2B3—F6E8 13 E4E5—G7E5 14 F3E5—D6E5 15 F4E5—E8G7 16 E5D6—F8C8	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3 16 E1F1—E6C4 17 A1B1—B7B6 18 E2C4—C3C4 19 D1E2—C4E2 20 G1E2—D8D6 21 H2H4—D6D2 22 A2A4—B8C6
1/2-1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6 08 G2G3—E8G8 09 F1G2—H7H6 10 G5F6—D8F6 11 F2F4—E6E5 12 F4F5—D6C7	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8 33 H6C1—A3C5 34 F2F7—C5E5 35 F1G1—D8F8 36 C1F4—E5F4 37 F7H7—G6H6	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3 58 G2H3—C7B5 59 B1D3—B5C3 60 D3F5—H6G5 61 E3F3—C6H6 62 E5E6—C3E4 63 E1D1—H5H4 64 D1D5—H4G3	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6 37 C4D2—D8D5 38 D2E4—G4F5 39 E4C3—D5D8 40 C3B5—F5E4 41 D3D2—C7E5 42 B5C3—E4E3 43 D2D1—D4D3	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6 08 G1F3—C6C5 09 D4F4—A8B8 10 E1G1—G8H6 11 B1C3—F8E7 12 B2B3—B8B4 13 F4G3—H6F5 14 G3H3—G7G5 15 H3H5—H7H6	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5 30 D5C6—E8F8 31 C6E4—D8E8 32 E4G2—H7H6 33 F1D1—G8H7 34 G1H2—H6H5	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3 12 A2B3—F6E8 13 E4E5—G7E5 14 F3E5—D6E5 15 F4E5—E8G7 16 E5D6—F8C8 17 C3E4—D7F5	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3 16 E1F1—E6C4 17 A1B1—B7B6 18 E2C4—C3C4 19 D1E2—C4E2 20 G1E2—D8D6 21 H2H4—D6D2 22 A2A4—B8C6 23 H1H3—A8D8
1/2-1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6 08 G2G3—E8G8 09 F1G2—H7H6 10 G5F6—D8F6 11 F2F4—E6E5 12 F4F5—D6C7 13 G1F3—C7A5 14 C2C3—C8D7 15 E1G1—D4C3	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8 33 H6C1—A3C5 34 F2F7—C5E5 35 F1G1—D8F8 36 C1F4—E5F4 37 F7H7—G6H6 38 H7H6—F4H6	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3 58 G2H3—C7B5 59 B1D3—B5C3 60 D3F5—H6G5 61 E3F3—C6H6 62 E5E6—C3E4 63 E1D1—H5H4 64 D1D5—H4G3 65 H3G2—H6H2	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6 37 C4D2—D8D5 38 D2E4—G4F5 39 E4C3—D5D8 40 C3B5—F5E4 41 D3D2—C7E5 42 B5C3—E4E3 43 D2D1—D4D3 44 D1E1—E3D2	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6 08 G1F3—C6C5 09 D4F4—A8B8 10 E1G1—G8H6 11 B1C3—F8E7 12 B2B3—B8B4 13 F4G3—H6F5 14 G3H3—G7G5 15 H3H5—H7H6 16 G2G4—F5G7	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5 30 D5C6—E8F8 31 C6E4—D8E8 32 E4G2—H7H6 33 F1D1—G8H7 34 G1H2—H6H5 35 C4C6—E8D8	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3 12 A2B3—F6E8 13 E4E5—G7E5 14 F3E5—D6E5 15 F4E5—E8G7 16 E5D6—F8C8 17 C3E4—D7F5 18 E4C5—B8D7	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3 16 E1F1—E6C4 17 A1B1—B7B6 18 E2C4—C3C4 19 D1E2—C4E2 20 G1E2—D8D6 21 H2H4—D6D2 22 A2A4—B8C6 23 H1H3—A8D8 24 B1E1—F7F5
1/2-1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6 08 G2G3—E8G8 09 F1G2—H7H6 10 G5F6—D8F6 11 F2F4—E6E5 12 F4F5—D6C7 13 G1F3—C7A5 14 C2C3—C8D7 15 E1G1—D4C3 16 E2C3—C6D4	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8 33 H6C1—A3C5 34 F2F7—C5E5 35 F1G1—D8F8 36 C1F4—E5F4 37 F7H7—G6H6 38 H7H6—F4H6 0-1 98. PRESTIGE	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3 58 G2H3—C7B5 59 B1D3—B5C3 60 D3F5—H6G5 61 E3F3—C6H6 62 E5E6—C3E4 63 E1D1—H5H4 64 D1D5—H4G3 65 H3G2—H6H2 66 G2G1—E4F6	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6 37 C4D2—D8D5 38 D2E4—G4F5 39 E4C3—D5D8 40 C3B5—F5E4 41 D3D2—C7E5 42 B5C3—E4E3 43 D2D1—D4D3 44 D1E1—E3D2 45 E1E5—D2C3	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6 08 G1F3—C6C5 09 D4F4—A8B6 10 E1G1—G8B6 11 B1C3—F8E7 12 B2B3—B8B4 13 F4G3—H6F5 14 G3H3—G7G5 15 H3H5—H7H6 16 G2G4—F5G7 17 H5H3—H6H5	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5 30 D5C6—E8F8 31 C6E4—D8E8 32 E4G2—H7H6 33 F1D1—G8H7 34 G1H2—H6H5 35 C4C6—E8D8 36 G2F3—A4A3	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3 12 A2B3—F6E8 13 E4E5—G7E5 14 F3E5—D6E5 15 F4E5—E8G7 16 E5D6—F8C8 17 C3E4—D7F5 18 E4C5—B8D7 19 C5B7—C8C2	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3 16 E1F1—E6C4 17 A1B1—B7B6 18 E2C4—C3C4 19 D1E2—C4E2 20 G1E2—D8D6 21 H2H4—D6D2 22 A2A4—B8C6 23 H1H3—A8D8 24 B1E1—F7F5 25 H3C3—D2A2
1/2-1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6 08 G2G3—E8G8 09 F1G2—H7H6 10 G5F6—D8F6 11 F2F4—E6E5 12 F4F5—D6C7 13 G1F3—C7A5 14 C2C3—C8D7 15 E1G1—D4C3 16 E2C3—C6D4 17 F3H4—A8C8	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8 33 H6C1—A3C5 34 F2F7—C5E5 35 F1G1—D8F8 36 C1F4—E5F4 37 F7H7—G6H6 38 H7H6—F4H6 0-1	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3 58 G2H3—C7B5 59 B1D3—B5C3 60 D3F5—H6G5 61 E3F3—C6H6 62 E5E6—C3E4 63 E1D1—H5H4 64 D1D5—H4G3 65 H3G2—H6H2 66 G2G1—E4F6 67 D5B5—F6H5	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6 37 C4D2—D8D5 38 D2E4—G4F5 39 E4C3—D5D8 40 C3B5—F5E4 41 D3D2—C7E5 42 B5C3—E4E3 43 D2D1—D4D3 44 D1E1—E3D2 45 E1E5—D2C3 46 E5E3—C3C2	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6 08 G1F3—C6C5 09 D4F4—A8B8 10 E1G1—G8H6 11 B1C3—F8E7 12 B2B3—B8B4 13 F4G3—H6F5 14 G3H3—G7G5 15 H3H5—H7H6 16 G2G4—F5G7 17 H5H3—H6H5 18 G4H5—G5G4	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5 30 D5C6—E8F8 31 C6E4—D8E8 32 E4G2—H7H6 33 F1D1—G8H7 34 G1H2—H6H5 35 C4C6—E8D8 36 G2F3—A4A3 37 C6B6—A5A4 38 B6B5—A4A8	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3 12 A2B3—F6E8 13 E4E5—G7E5 14 F3E5—D6E5 15 F4E5—E8G7 16 E5D6—F8C8 17 C3E4—D7F5 18 E4C5—B8D7 19 C5B7—C8C2 20 E2C4—C2B2	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3 16 E1F1—E6C4 17 A1B1—B7B6 18 E2C4—C3C4 19 D1E2—C4E2 20 G1E2—D8D6 21 H2H4—D6D2 22 A2A4—B8C6 23 H1H3—A8D8 24 B1E1—F7F5 25 H3C3—D8D2
1/2 - 1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6 08 G2G3—E8G8 09 F1G2—H7H6 10 G5F6—D8F6 11 F2F4—E6E5 12 F4F5—D6C7 13 G1F3—C7A5 14 C2C3—C8D7 15 E1G1—D4C3 16 E2C3—C6D4 17 F3H4—A8C8 18 H4F3—C8D8	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8 33 H6C1—A3C5 34 F2F7—C5E5 35 F1G1—D8F8 36 C1F4—E5F4 37 F7H7—G6H6 38 H7H6—F4H6 0-1 98. PRESTIGE	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3 58 G2H3—C7B5 59 B1D3—B5C3 60 D3F5—H6G5 61 E3F3—C6H6 62 E5E6—C3E4 63 E1D1—H5H4 64 D1D5—H4G3 65 H3G2—H6H2 66 G2G1—E4F6 67 D5B5—F6H5 68 F3G3—H5G3	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6 37 C4D2—D8D5 38 D2E4—G4F5 39 E4C3—D5D8 40 C3B5—F5E4 41 D3D2—C7E5 42 B5C3—E4E3 43 D2D1—D4D3 44 D1E1—E3D2 45 E1E5—D2C3 46 E5E3—C3C2 47 E3E6—D3D2	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6 08 G1F3—C6C5 09 D4F4—A8B8 10 E1G1—G8H6 11 B1C3—F8E7 12 B2B3—B8E4 13 F4G3—H6F5 14 G3H3—G7G5 15 H3H5—H7H6 16 G2G4—F5G7 17 H5H3—H6H5 18 G4H5—G5G4 19 H3G2—G7F5	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5 30 D5C66—E8F8 31 C6E4—D8E8 32 E4G2—H7H6 33 F1D1—G8H7 34 G1H2—H6H5 35 C4C6—E8D8 36 G2F3—A4A3 37 C6B6—A5A4 38 B6B5—A4A8 39 F3A8—D8A8 40 B5D7—A8E8	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3 12 A2B3—F6E8 13 E4E5—G7E5 14 F3E5—D6E5 15 F4E5—E8G7 16 E5D6—F8C8 17 C3E4—D7F5 18 E4C5—B8D7 19 C5B7—C8C2	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3 16 E1F1—E6C4 17 A1B1—B7B6 18 E2C4—C3C4 19 D1E2—C4E2 20 G1E2—D8D6 21 H2H4—D6D2 22 A2A4—B8C6 23 H1H3—A8D8 24 B1E1—F7F5 25 H3C3—D2A2 26 C3C4—D8D2 27 C4F4—A2C2
1/2-1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6 08 G2G3—E8G8 09 F1G2—H7H6 10 G5F6—D8F6 11 F2F4—E6E5 12 F4F5—D6C7 13 G1F3—C7A5 14 C2C3—C8D7 15 E1G1—D4C3 16 E2C3—C6D4 17 F3H4—A8C8 18 H4F3—C8D8 19 A1E1—C5C4	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8 33 H6C1—A3C5 34 F2F7—C5E5 35 F1G1—D8F8 36 C1F4—E5F4 37 F7H7—G6H6 38 H7H6—F4H6 0-1 98. PRESTIGE - PHILIDOR 01 F2F4—D7D5 02 G1F3—G8F6	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3 58 G2H3—C7B5 59 B1D3—B5C3 60 D3F5—H6G5 61 E3F3—C6H6 62 E5E6—C3E4 63 E1D1—H5H4 64 D1D5—H4G3 65 H3G2—H6H2 66 G2G1—E4F6 67 D5B5—F6H5 68 F3G3—H5G3 69 F5H3—G5F4	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6 37 C4D2—D8D5 38 D2E4—G4F5 39 E4C3—D5D8 40 C3B5—F5E4 41 D3D2—C7E5 42 B5C3—E4E3 43 D2D1—D4D3 44 D1E1—E3D2 45 E1E5—D2C3 46 E5E3—C3C2 47 E3E6—D3D2 48 E6E2—C2B3	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6 08 G1F3—C6C5 09 D4F4—A8B8 10 E1G1—G8H6 11 B1C3—F8E7 12 B2B3—B8B4 13 F4G3—H6F5 14 G3H3—G7G5 15 H3H5—H7H6 16 G2G4—F5G7 17 H5H3—H6H5 18 G4H5—G5G4 19 H3G2—G7F5 20 F3E1—F5H4	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5 30 D5C6—E8F8 31 C6E4—D8E8 32 E4G2—H7H6 33 F1D1—G8H7 34 G1H2—H6H5 35 C4C6—E8D8 36 G2F3—A4A3 37 C6B6—A5A4 38 B6B5—A4A8 39 F3A8—D8A8 40 B5D7—A8E8 41 B2A3—B4A3	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3 12 A2B3—F6E8 13 E4E5—G7E5 14 F3E5—D6E5 15 F4E5—E8G7 16 E5D6—F8C8 17 C3E4—D7F5 18 E4C5—B8D7 19 C5B7—C8C2 20 E2C4—C2B2 21 F1D1—D7B6	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3 16 E1F1—E6C4 17 A1B1—B7B6 18 E2C4—C3C4 19 D1E2—C4E2 20 G1E2—D8D6 21 H2H4—D6D2 22 A2A4—B8C6 23 H1H3—A8D8 24 B1E1—F7F5 25 H3C3—D2A2 26 C3C4—D8D2 27 C4F4—A2C2 28 H4H5—C6E5
1/2-1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6 08 G2G3—E8G8 09 F1G2—H7H6 10 G5F6—D8F6 11 F2F4—E6E5 12 F4F5—D6C7 13 G1F3—C7A5 14 C2C3—C8D7 15 E1G1—D4C3 16 E2C3—C6D4 17 F3H4—A8C8 18 H4F3—C8D8 19 A1E1—C5C4 20 D3C4—D7B5	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4B6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8 33 H6C1—A3C5 34 F2F7—C5E5 35 F1G1—D8F8 36 C1F4—E5F4 37 F7H7—G6H6 38 H7H6—F4H6 0-1 98. PRESTIGE - PHILIDOR 01 F2F4—D7D5 02 G1F3—G8F6 03 G2G3—B8C6	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3 58 G2H3—C7B5 59 B1D3—B5C3 60 D3F5—H6G5 61 E3F3—C6H6 62 E5E6—C3E4 63 E1D1—H5H4 64 D1D5—H4G3 65 H3G2—H6H2 66 G2G1—E4F6 67 D5B5—F6H5 68 F3G3—H5G3 69 F5H3—G5F4 70 G1H2—E7H7	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6 37 C4D2—D8D5 38 D2E4—G4F5 39 E4C3—D5D8 40 C3B5—F5E4 41 D3D2—C7E5 42 B5C3—E4E3 43 D2D1—D4D3 44 D1E1—E3D2 45 E1E5—D2C3 46 E5E3—C3C2 47 E3E6—D3D2 48 E6E2—C2B3 49 E2D2—D8D2	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6 08 G1F3—C6C5 09 D4F4—A8B8 10 E1G1—G8H6 11 B1C3—F8E7 12 B2B3—B8B4 13 F4G3—H6F5 14 G3H3—G7G5 15 H3H5—H7H6 16 G2G4—F5G7 17 H5H3—H6H5 18 G4H5—G5G4 19 H3G2—G7F5 20 F3E1—F5H4 21 G2G3—H8H5	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5 30 D5C6—E8F8 31 C6E4—D8E8 32 E4G2—H7H6 33 F1D1—G8H7 34 G1H2—H6H5 35 C4C6—E8D8 36 G2F3—A4A3 37 C6B6—A5A4 38 B6B5—A4A8 39 F3A8—D8A8 40 B5D7—A8E8 41 B2A3—B4A3 42 D4D5—H7H6	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3 12 A2B3—F6E8 13 E4E5—G7E5 14 F3E5—D6E5 15 F4E5—E8G7 16 E5D6—F8C8 17 C3E4—D7F5 18 E4C5—B8D7 19 C5B7—C8C2 20 E2C4—C2B2 21 F1D1—D7B6 22 B7C5—G7E8	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3 16 E1F1—E6C4 17 A1B1—B7B6 18 E2C4—C3C4 19 D1E2—C4E2 20 G1E2—D8D6 21 H2H4—D6D2 22 A2A4—B8C6 23 H1H3—A8D8 24 B1E1—F7F5 25 H3C3—D2A2 26 C3C4—D8D2 27 C4F4—A2C2 28 H4H5—C6E5 29 E2C1—C5C4
1/2-1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6 08 G2G3—E8G8 09 F1G2—H7H6 10 G5F6—D8F6 11 F2F4—E6E5 12 F4F5—D6C7 13 G1F3—C7A5 14 C2C3—C8D7 15 E1G1—D4C3 16 E2C3—C6D4 17 F3H4—A8C8 18 H4F3—C8D8 19 A1E1—C5C4 20 D3C4—D7B5 21 C3D5—D4F3	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8 33 H6C1—A3C5 34 F2F7—C5E5 35 F1G1—D8F8 36 C1F4—E5F4 37 F7H7—G6H6 38 H7H6—F4H6 0-1 96. PRESTIGE - PHILIDOR 01 F2F4—D7D5 02 G1F3—G8F6 03 G2G3—B8C6 04 F1G2—C8F5	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3 58 G2H3—C7B5 59 B1D3—B5C3 60 D3F5—H6G5 61 E3F3—C6H6 62 E5E6—C3E4 63 E1D1—H5H4 64 D1D5—H4G3 65 H3G2—H6H2 66 G2G1—E4F6 67 D5B5—F6H5 68 F3G3—H5G3 69 F5H3—G5F4 70 G1H2—E7H7 71 B5B4—G3E4	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6 37 C4D2—D8D5 38 D2E4—G4F5 39 E4C3—D5D8 40 C3B5—F5E4 41 D3D2—C7E5 42 B5C3—E4E3 43 D2D1—D4D3 44 D1E1—E3D2 45 E1E5—D2C3 46 E5E3—C3C2 47 E3E6—D3D2 48 E6E2—C2B3	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6 08 G1F3—C6C5 09 D4F4—A8B8 10 E1G1—G8H6 11 B1C3—F8E7 12 B2B3—B8B4 13 F4G3—H6F5 14 G3H3—G7G5 15 H3H5—H7H6 16 G2G4—F5G7 17 H5H3—H6H5 18 G4H5—G5G4 19 H3G2—G7F5 20 F3E1—F5H4 21 G2G3—H8H5 22 Ā2A3—H4F5	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5 30 D5C6—E8F8 31 C6E4—D8E8 32 E4G2—H7H6 33 F1D1—G8H7 34 G1H2—H6H5 35 C4C6—E8D8 36 G2F3—A4A3 37 C6B6—A5A4 38 B6B5—A4A8 39 F3A8—D8A8 40 B5D7—A8E8 41 B2A3—B4A3 42 D4D5—H7H6 43 F2F4—H6G7	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3 12 A2B3—F6E8 13 E4E5—G7E5 14 F3E5—D6E5 15 F4E5—E8G7 16 E5D6—F8C8 17 C3E4—D7F5 18 E4C5—B8D7 19 C5B7—C8C2 20 E2C4—C2B2 21 F1D1—D7B6 22 B7C5—G7E8 23 D6E7—F5C2 24 D1D2—B6C8 25 C5A4—B2B1	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3 16 E1F1—E6C4 17 A1B1—B7B6 18 E2C4—C3C4 19 D1E2—D8D6 21 H2H4—D6D2 22 A2A4—B8C6 23 H1H3—A8D8 24 B1E1—F7F5 25 H3C3—D2A2 26 C3C4—D8D2 27 C4F4—A2C2 28 H4H5—C6E5 29 E2C1—C5C4 30 H5G6—H7G6
1/2 - 1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6 08 G2G3—E8G8 09 F1G2—H7H6 10 G5F6—D8F6 11 F2F4—E6E5 12 F4F5—D6C7 13 G1F3—C7A5 14 C2C3—C8D7 15 E1G1—D4C3 16 E2C3—C6D4 17 F3H4—A8C8 18 H4F3—C8D8 19 A1E1—C5C4 20 D3C4—D7B5 21 C3D5—D4F3 22 G2F3—A5D2	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8 33 H6C1—A3C5 34 F2F7—C5E5 35 F1G1—D8F8 36 C1F4—E5F4 37 F7H7—G6H6 38 H7H6—F4H6 0-1 98. PRESTIGE - PHILIDOR 01 F2F4—D7D5 02 G1F3—G8F6 03 G2G3—B8C6 04 F1G2—C8F5 05 E1G1—E7E6	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3 58 G2H3—C7B5 59 B1D3—B5C3 60 D3F5—H6G5 61 E3F3—C6H6 62 E5E6—C3E4 63 E1D1—H5H4 64 D1D5—H4G3 65 H3G2—H6H2 66 G2G1—E4F6 67 D5B5—F6H5 68 F3G3—H5G3 69 F5H3—G5F4 70 G1H2—E7H7 71 B5B4—G3E4 72 B4D4—F4E3	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6 37 C4D2—D8D5 38 D2E4—G4F5 39 E4C3—D5D8 40 C3B5—F5E4 41 D3D2—C7E5 42 B5C3—E4E3 43 D2D1—D4D3 44 D1E1—E3D2 45 E1E5—D2C3 46 E5E3—C3C2 47 E3E6—D3D2 48 E6E2—C2B3 49 E2D2—D8D2	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6 08 G1F3—C6C5 09 D4F4—A8B8 10 E1G1—G8H6 11 B1C3—F8E7 12 B2B3—B8B4 13 F4G3—H6F5 14 G3H3—G7G5 15 H3H5—H7H6 16 G2G4—F5G7 17 H5H3—H6H5 18 G4H5—G5G4 19 H3G2—G7F5 20 F3E1—F5H4 21 G2G3—H8H5	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5 30 D5C6—E8F8 31 C6E4—D8E8 32 E4G2—H7H6 33 F1D1—G8H7 34 G1H2—H6H5 35 C4C6—E8D8 36 G2F3—A4A3 37 C6B6—A5A4 38 B6B5—A4A8 39 F3A8—D8A8 40 B5D7—A8E8 41 B2A3—B4A3 42 D4D5—H7H6 43 F2F4—H6G7 44 D5D6—E7D8	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3 12 A2B3—F6E8 13 E4E5—G7E5 14 F3E5—D6E5 15 F4E5—E8G7 16 E5D6—F8C8 17 C3E4—D7F5 18 E4C5—B8D7 19 C5B7—C8C2 20 E2C4—C2B2 21 F1D1—D7B6 22 B7C5—G7E8 23 D6E7—F5C2 24 D1D2—B6C8 25 C5A4—B2B1 26 A1B1—C2B1	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3 16 E1F1—E6C4 17 A1B1—B7B6 18 E2C4—C3C4 19 D1E2—C4E2 20 G1E2—D8D6 21 H2H4—D6D2 22 A2A4—B8C6 23 H1H3—A8D8 24 B1E1—F7F5 25 H3C3—D2A2 26 C3C4—D8D2 27 C4F4—A2C2 28 H4H5—C6E5 29 E2C1—C5C4 30 H5G6—H7G6
1/2-1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6 08 G2G3—E8G8 09 F1G2—H7H6 10 G5F6—D8F6 11 F2F4—E6E5 12 F4F5—D6C7 13 G1F3—C7A5 14 C2C3—C8D7 15 E1G1—D4C3 16 E2C3—C6D4 17 F3H4—A8C8 18 H4F3—C8D8 19 A1E1—C5C4 20 D3C4—D7B5 21 C3D5—D4F3 22 G2F3—A5D2 23 D5F6—G7F6	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8 33 H6C1—A3C5 34 F2F7—C5E5 35 F1G1—D8F8 36 C1F4—E5F4 37 F7H7—G6H6 38 H7H6—F4H6 0-1 98. PRESTIGE - PHILIDOR 01 F2F4—D7D5 02 G1F3—G8F6 03 G2G3—B8C6 04 F1G2—C8F5 05 E1G1—E7E6 06 B1C3—F8E7	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3 58 G2H3—C7B5 59 B1D3—B5C3 60 D3F5—H6G5 61 E3F3—C6H6 62 E5E6—C3E4 63 E1D1—H5H4 64 D1D5—H4G3 65 H3G2—H6H2 66 G2G1—E4F6 67 D5B5—F6H5 68 F3G3—H5G3 69 F5H3—G5F4 70 G1H2—E7H7 71 B5B4—G3E4 72 B4D4—F4E3 73 D4D7—H7H8	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6 37 C4D2—D8D5 38 D2E4—G4F5 39 E4C3—D5D8 40 C3B5—F5E4 41 D3D2—C7E5 42 B5C3—E4E3 43 D2D1—D4D3 44 D1E1—E3D2 45 E1E5—D2C3 46 E5E3—C3C2 47 E3E6—D3D2 48 E6E2—C2B3 49 E2D2—D8D2 0-1	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6 08 G1F3—C6C5 09 D4F4—A8B8 10 E1G1—G8H6 11 B1C3—F8E7 12 B2B3—B8B4 13 F4G3—H6F5 14 G3H3—G7G5 15 H3H5—H7H6 16 G2G4—F5G7 17 H5H3—H6H5 18 G4H5—G5G4 19 H3G2—G7F5 20 F3E1—F5H4 21 G2G3—H8H5 22 ĀZA3—H4F5 23 G3D3—B4D4	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5 30 D5C66—E8F8 31 C6E4—D8E8 32 E4G2—H7H6 33 F1D1—G8H7 34 G1H2—H6H5 35 C4C6—E8D8 36 G2F3—A4A3 37 C6B6—A5A4 38 B6B5—A4A8 39 F3A8—D8A8 40 B5D7—A8E8 41 B2A3—B4A3 42 D4D5—H7H6 43 F2F4—H6G7 44 D5D6—E7D8 45 C7A7—D8B6	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3 12 A2B3—F6E8 13 E4E5—G7E5 14 F3E5—D6E5 15 F4E5—E8G7 16 E5D6—F8C8 17 C3E4—D7F5 18 E4C5—B8D7 19 C5B7—C8C2 20 E2C4—C2B2 21 F1D1—D7B6 22 B7C5—G7E8 23 D6E7—F5C2 24 D1D2—B6C8 25 C5A4—B2B1 26 A1B1—C2B1 27 E7B4—A7A5	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3 16 E1F1—E6C4 17 A1B1—B7B6 18 E2C4—C3C4 19 D1E2—C4E2 20 G1E2—D8D6 21 H2H4—D6D2 22 A2A4—B8C6 23 H1H3—A8D8 24 B1E1—F7F5 25 H3C3—D2A2 26 C3C4—D8D2 27 C4F4—A2C2 28 H4H5—C6E5 29 E2C1—C5C4 30 H5G6—H7G6 31 E1E5—C2C1
1/2-1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6 08 G2G3—E8G8 09 F1G2—H7H6 10 G5F6—D8F6 11 F2F4—E6E5 12 F4F5—D6C7 13 G1F3—C7A5 14 C2C3—C8D7 15 E1G1—D4C3 16 E2C3—C6D4 17 F3H4—A8C8 18 H4F3—C8D8 19 A1E1—C5C4 20 D3C4—D7B5 21 C3D5—D4F3 22 G2F3—A5D2 23 D5F6—G7F6 24 C4B5—D2E1	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8 33 H6C1—A3C5 34 F2F7—C5E5 35 F1G1—D8F8 36 C1F4—E5F4 37 F7H7—G6H6 38 H7H6—F4H6 0-1 98. PRESTIGE - PHILIDOR 01 F2F4—D7D5 02 G1F3—G8F6 03 G2G3—B8C6 04 F1G2—C8F5 05 E1G1—E7E6 06 B1C3—F78E7 07 D2D4—E8G8	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3 58 G2H3—C7B5 59 B1D3—B5C3 60 D3F5—H6G5 61 E3F3—C6H6 62 E5E6—C3E4 63 E1D1—H5H4 64 D1D5—H4G3 65 H3G2—H6H2 66 G2G1—E4F6 67 D5B5—F6H5 68 F3G3—H5G3 69 F5H3—G5F4 70 G1H2—E7H7 71 B5B4—G3E4 72 B4D4—F4E3	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6 37 C4D2—D8D5 38 D2E4—G4F5 39 E4C3—D5D8 40 C3B5—F5E4 41 D3D2—C7E5 42 B5C3—E4E3 43 D2D1—D4D3 44 D1E1—E3D2 45 E1E5—D2C3 46 E5E3—C3C2 47 E3E6—D3D2 48 E6E2—C2B3 49 E2D2—D8D2 0-1	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6 08 G1F3—C6C5 09 D4F4—A8B8 10 E1G1—G8H6 11 B1C3—F8E7 12 B2B3—B8B4 13 F4G3—H6F5 14 G3H3—G7G5 15 H3H5—H7H6 16 G2G4—F5G7 17 H5H3—H6H5 18 G4H5—G5G4 19 H3G2—G7F5 20 F3E1—F5H4 21 G2G3—H8H5 22 Ā2A3—H4F5 23 G3D3—B4D4 24 D3A6—H5H3 25 C3E2—D4E4 26 E2F4—D8B8	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5 30 D5C6—E8F8 31 C6E4—D8E8 32 E4G2—H7H6 33 F1D1—G8H7 34 G1H2—H6H5 35 C4C6—E8D8 36 G2F3—A4A3 37 C6B6—A5A4 38 B6B5—A4A8 39 F3A8—D8A8 40 B5D7—A8E8 41 B2A3—B4A3 42 D4D5—H7H6 43 F2F4—H6G7 44 D5D6—E7D8 45 C7A7—D8B6 46 A7A3—B6C5	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3 12 A2B3—F6E8 13 E4E5—G7E5 14 F3E5—D6E5 15 F4E5—E8G7 16 E5D6—F8C8 17 C3E4—D7F5 18 E4C5—B8D7 19 C5B7—C8C2 20 E2C4—C2B2 21 F1D1—D7B6 22 B7C5—G7E8 23 D6E7—F5C2 24 D1D2—B6C8 25 C5A4—B2B1 26 A1B1—C2B1 27 E7B4—A7A5 28 B4C3—C8D6	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3 16 E1F1—E6C4 17 A1B1—B7B6 18 E2C4—C3C4 19 D1E2—C4E2 20 G1E2—D8D6 21 H2H4—D6D2 22 A2A4—B8C6 23 H1H3—A8D8 24 B1E1—F7F5 25 H3C3—D2A2 26 C3C4—D8D2 27 C4F4—A2C2 28 H4H5—C6E5 29 E2C1—C5C4 30 H5G6—H7G6 31 E1E5—C2C1 32 E5E1—C1C2
1/2-1/2 94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6 08 G2G3—E8G8 09 F1G2—H7H6 10 G5F6—D8F6 11 F2F4—E6E5 12 F4F5—D6C7 13 G1F3—C7A5 14 C2C3—C8D7 15 E1G1—D4C3 16 E2C3—C6D4 17 F3H4—A8C8 18 H4F3—C8D8 19 A1E1—C5C4 20 D3C4—D7B5 21 C3D5—D4F3 22 G2F3—A5D2 23 D5F6—G7F6	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8 33 H6C1—A3C5 34 F2F7—C5E5 35 F1G1—D8F8 36 C1F4—E5F4 37 F7H7—G6H6 38 H7H6—F4H6 0-1 98. PRESTIGE—PHILIDOR 01 F2F4—D7D5 02 G1F3—G8F6 03 G2G3—B8C6 04 F1G2—C8F5 05 E1G1—E7E6 06 B1C3—F8E7 07 D2D4—E8G8 08 F3H4—F5G4	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3 58 G2H3—C7B5 59 B1D3—B5C3 60 D3F5—H6G5 61 E3F3—C6H6 62 E5E6—C3E4 63 E1D1—H5H4 64 D1D5—H4G3 65 H3G2—H6H2 66 G2G1—E4F6 67 D5B5—F6H5 68 F3G3—H5G3 69 F5H3—G5F4 70 G1H2—E7H7 71 B5B4—G3E4 72 B4D4—F4E3 73 D4D7—H7H8 74 E6E7—H8E8	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6 37 C4D2—D8D5 38 D2E4—G4F5 39 E4C3—D5D8 40 C3B5—F5E4 41 D3D2—C7E5 42 B5C3—E4E3 43 D2D1—D4D3 44 D1E1—E3D2 45 E1E5—D2C3 46 E5E3—C3C2 47 E3E6—D3D2 48 E6E2—C2B3 49 E2D2—D8D2 0-1 98. PRESTIGE - PHILIDOR 01 E2E4—C7C5	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6 08 G1F3—C6C5 09 D4F4—A8B8 10 E1G1—G8H6 11 B1C3—F8E7 12 B2B3—B8B4 13 F4G3—H6F5 14 G3H3—G7G5 15 H3H5—H7H6 16 G2G4—F5G7 17 H5H3—H6H5 18 G4H5—G5G4 19 H3G2—G7F5 20 F3E1—F5H4 21 G2G3—H8H5 22 AZA3—H4F5 23 G3D3—B4D4 24 D3A6—H5H3 25 C3E2—D4E4 26 E2F4—D8B8	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5 30 D5C66—E8F8 31 C6E4—D8E8 32 E4G2—H7H6 33 F1D1—G8H7 34 G1H2—H6H5 35 C4C6—E8D8 36 G2F3—A4A3 37 C6B6—A5A4 38 B6B5—A4A8 39 F3A8—D8A8 40 B5D7—A8E8 41 B2A3—B4A3 42 D4D5—H7H6 43 F2F4—H6G7 44 D5D6—E7D8 45 C7A7—D8B6	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3 12 A2B3—F6E8 13 E4E5—G7E5 14 F3E5—D6E5 15 F4E5—E8G7 16 E5D6—F8C8 17 C3E4—D7F5 18 E4C5—B8D7 19 C5B7—C8C2 20 E2C4—C2B2 21 F1D1—D7B6 22 B7C5—G7E8 23 D6E7—F5C2 24 D1D2—B6C8 25 C5A4—B2B1 26 A1B1—C2B1 27 E7B4—A7A5 28 B4C3—C8D6	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3 16 E1F1—E6C4 17 A1B1—B7B6 18 E2C4—C3C4 19 D1E2—C4E2 20 G1E2—D8D6 21 H2H4—D6D2 22 A2A4—B8C6 23 H1H3—A8D8 24 B1E1—F7F5 25 H3C3—D2A2 26 C3C4—D8D2 27 C4F4—A2C2 28 H4H5—C6E5 29 E2C1—C5C4 30 H5G6—H7G6 31 E1E5—C2C1 32 E5E1—C1C2 33 F1G1—G8F7 34 G2G4—F7F6 35 G1G2—C4C3
94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6 08 G2G3—E8G8 09 F1G2—H7H6 10 G5F6—D8F6 11 F2F4—E6E5 12 F4F5—D6C7 13 G1F3—C7A5 14 C2C3—C8D7 15 E1G1—D4C3 16 E2C3—C6D4 17 F3H4—A8C8 18 H4F3—C8D8 19 A1E1—C5C4 20 D3C4—D7B5 21 C3D5—D4F3 22 G2F3—A5D2 23 D5F6—G7F6 24 C4B5—D2E1 25 F1E1—D8D2	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8 33 H6C1—A3C5 34 F2F7—C5E5 35 F1G1—D8F8 36 C1F4—E5F4 37 F7H7—G6H6 38 H7H6—F4H6 0-1 96. PRESTIGE - PHILIDOR 01 F2F4—D7D5 02 G1F3—G8F6 03 G2G3—B8C6 04 F1G2—C8F5 05 E1G1—E7E6 06 B1C3—F8E7 07 D2D4—E8G8 08 F3H4—F5G4 09 C1E3—D8D7	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3 58 G2H3—C7B5 59 B1D3—B5C3 60 D3F5—H6G5 61 E3F3—C6H6 62 E5E6—C3E4 63 E1D1—H5H4 64 D1D5—H4G3 65 H3G2—H6H2 66 G2G1—E4F6 67 D5B5—F6H5 68 F3G3—H5G3 69 F5H3—G5F4 70 G1H2—E7H7 71 B5B4—G3E4 72 B4D4—F4E3 73 D4D7—H7H8 74 E6E7—H8E8 75 H2G1—E8G8	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6 37 C4D2—D8D5 38 D2E4—G4F5 39 E4C3—D5D8 40 C3B5—F5E4 41 D3D2—C7E5 42 B5C3—E4E3 43 D2D1—D4D3 44 D1E1—E3D2 45 E1E5—D2C3 46 E5E3—C3C2 47 E3E6—D3D2 48 E6E2—C2B3 49 E2D2—D8D2 0-1 98. PRESTIGE - PHILIDOR 01 E2E4—C7C5 02 G1F3—D7D6	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6 08 G1F3—C6C5 09 D4F4—A8B8 10 E1G1—G8H6 11 B1C3—F8E7 12 B2B3—B8B4 13 F4G3—H6F5 14 G3H3—G7G5 15 H3H5—H7H6 16 G2G4—F5G7 17 H5H3—H6H5 18 G4H5—G5G4 19 H3G2—G7F5 20 F3E1—F5H4 21 G2G3—H8H5 22 ĀZA3—H4F5 23 G3D3—B4D4 24 D3A6—H5H3 25 C3E2—D4E4 26 E2F4—D8B8 27 F4H3—D7B5 28 A6A5—B5F1	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5 30 D5C6—E8F8 31 C6E4—D8E8 32 E4G2—H7H6 33 F1D1—G8H7 34 G1H2—H6H5 35 C4C6—E8D8 36 G2F3—A4A3 37 C6B6—A5A4 38 B6B5—A4A8 39 F3A8—D8A8 40 B5D7—A8E8 41 B2A3—B4A3 42 D4D5—H7H6 43 F2F4—H6G7 44 D5D6—E7D8 45 C7A7—D8B6 46 A7A3—B6C5	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3 12 A2B3—F6E8 13 E4E5—G7E5 14 F3E5—D6E5 15 F4E5—E8G7 16 E5D6—F8C8 17 C3E4—D7F5 18 E4C5—B8D7 19 C5B7—C8C2 20 E2C4—C2B2 21 F1D1—D7B6 22 B7C5—G7E8 23 D6E7—F5C2 24 D1D2—B6C8 25 C5A4—B2B1 26 A1B1—C2B1 27 E7B4—A7A5 28 B4C3—C8D6 29 C3E5—A8B8 30 E5C3—D6E4	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3 16 E1F1—E6C4 17 A1B1—B7B6 18 E2C4—C3C4 19 D1E2—C4E2 20 G1E2—D8D6 21 H2H4—D6D2 22 A2A4—B8C6 23 H1H3—A8D8 24 B1E1—F7F5 25 H3C3—D2A2 26 C3C4—D8D6 27 C4F4—A2C2 28 H4H5—C6E5 29 E2C1—C5C4 30 H5G6—H7G6 31 E1E5—C2C1 32 E5E1—C1C2 33 F1G1—G8F7 34 G2G4—F7F6 35 G1G2—C4C3 36 E1E8—F6G5
94. SCISYS MARK V - PRESTIGE 01 E2E4—C7C5 02 B1C3—B8C6 03 D2D3—G8F6 04 C1E3—E7E6 05 D1D2—D7D5 06 E3G5—D5D4 07 C3E2—F8D6 08 G2G3—E8G8 09 F1G2—H7H6 10 G5F6—D8F6 11 F2F4—E6E5 12 F4F5—D6C7 13 G1F3—C7A5 14 C2C3—C8D7 15 E1G1—D4C3 16 E2C3—C6D4 17 F3H4—A8C8 18 H4F3—C8D8 19 A1E1—C5C4 20 D3C4—D7B5 21 C3D5—D4F3 22 G2F3—A5D2 23 D5F6—G7F6 24 C4B5—D2E1 25 F1E1—D8D2 26 E1E2—D2E2	22 F4E3—D5D4 23 E3H6—B6B5 24 H2H3—G4G6 25 H6F4—B5D5 26 F3H2—F5H4 27 F2F3—H4F3 28 H2F3—D5F3 29 E1F1—F3A3 30 G1H2—E7B4 31 D2F2—B4C3 32 F4H6—E8C8 33 H6C1—A3C5 34 F2F7—C5E5 35 F1G1—D8F8 36 C1F4—E5F4 37 F7H7—G6H6 38 H7H6—F4H6 0-1 98. PRESTIGE—PHILIDOR 01 F2F4—D7D5 02 G1F3—G8F6 03 G2G3—B8C6 04 F1G2—C8F5 05 E1G1—E7E6 06 B1C3—F8E7 07 D2D4—E8G8 08 F3H4—F5G4	47 E2E3—G8F8 48 D3F1—C6E6 49 A7B7—F8G7 50 F1D3—E6C6 51 D3B1—C6H6 52 B7B2—H6E6 53 B2E2—C7B5 54 B1A2—B5C7 55 E2E1—G7H6 56 A2B1—E6C6 57 H2H3—G4H3 58 G2H3—C7B5 59 B1D3—B5C3 60 D3F5—H6G5 61 E3F3—C6H6 62 E5E6—C3E4 63 E1D1—H5H4 64 D1D5—H4G3 65 H3G2—H6H2 66 G2G1—E4F6 67 D5B5—F6H5 68 F3G3—H5G3 69 F5H3—G5F4 70 G1H2—E7H7 71 B5B4—G3E4 72 B4D4—F4E3 73 D4D7—H7H8 74 E6E7—H8E8 75 H2G1—E8G8 76 H3G2—E4F6	26 B3D2—C6C2 27 B2B3—C2C3 28 F5F3—C3D3 29 F3D3—G8F7 30 D2C4—E5C7 31 G1G2—F7E6 32 H2H3—G7G6 33 H3H4—F6F5 34 E4F5—E6F5 35 D3F3—F5G4 36 F3D3—H7H6 37 C4D2—D8D5 38 D2E4—G4F5 39 E4C3—D5D8 40 C3B5—F5E4 41 D3D2—C7E5 42 B5C3—E4E3 43 D2D1—D4D3 44 D1E1—E3D2 45 E1E5—D2C3 46 E5E3—C3C2 47 E3E6—D3D2 48 E6E2—C2B3 49 E2D2—D8D2 0-1 98. PRESTIGE - PHILIDOR 01 E2E4—C7C5	PRESTIGE 01 E2E4—E7E6 02 D2D4—D7D5 03 E4E5—C7C5 04 D1G4—C5D4 05 G4D4—B8C6 06 F1B5—C8D7 07 B5C6—B7C6 08 G1F3—C6C5 09 D4F4—A8B8 10 E1G1—G8H6 11 B1C3—F8E7 12 B2B3—B8B4 13 F4G3—H6F5 14 G3H3—G7G5 15 H3H5—H7H6 16 G2G4—F5G7 17 H5H3—H6H5 18 G4H5—G5G4 19 H3G2—G7F5 20 F3E1—F5H4 21 G2G3—H8H5 22 AZA3—H4F5 23 G3D3—B4D4 24 D3A6—H5H3 25 C3E2—D4E4 26 E2F4—D8B8	18 F3G5—B6B5 19 C4D3—B5B4 20 G5E4—D7A4 21 D2G5—G7F8 22 E4F6—G8G7 23 F6D5—E6D5 24 C1C7—A4E8 25 D3B3—A7A5 26 G5F6—G7G8 27 F6E7—F8E7 28 G2D5—A5A4 29 B3C4—A8A5 30 D5C6—E8F8 31 C6E4—D8E8 32 E4G2—H7H6 33 F1D1—G8H7 34 G1H2—H6H5 35 C4C6—E8D8 36 G2F3—A4A3 37 C6B6—A5A4 38 B6B5—A4A8 39 F3A8—D8A8 40 B5D7—A8E8 41 B2A3—B4A3 42 D4D5—H7H6 43 F2F4—H6G7 44 D5D6—E7D8 45 C7A7—D8B6 46 A7A3—B6C5	PHILIDOR 01 D2D4—G8F6 02 C2C4—C7C5 03 D4D5—E7E6 04 B1C3—E6D5 05 C4D5—D7D6 06 E2E4—G7G6 07 G1F3—F8G7 08 F1E2—E8G8 09 E1G1—C8D7 10 C1F4—D8B6 11 D1B3—B6B3 12 A2B3—F6E8 13 E4E5—G7E5 14 F3E5—D6E5 15 F4E5—E8G7 16 E5D6—F8C8 17 C3E4—D7F5 18 E4C5—B8D7 19 C5B7—C8C2 20 E2C4—C2B2 21 F1D1—D7B6 22 B7C5—G7E8 23 D6E7—F5C2 24 D1D2—B6C8 25 C5A4—B2B1 26 A1B1—C2B1 27 E7B4—A7A5 28 B4C3—C8D6	06 C1G5—C7C5 07 D4D5—E7E6 08 D5E6—C8E6 09 G5F4—D8B6 10 F4D6—F8D8 11 E4E5—F6E8 12 C3A4—B6A5 13 A4C3—E8D6 14 E5D6—G7C3 15 B2C3—A5C3 16 E1F1—E6C4 17 A1B1—B7B6 18 E2C4—C3C4 19 D1E2—C4E2 20 G1E2—D8D6 21 H2H4—D6D2 22 A2A4—B8C6 23 H1H3—A8D8 24 B1E1—F7F5 25 H3C3—D2A2 26 C3C4—D8D2 27 C4F4—A2C2 28 H4H5—C6E5 29 E2C1—C5C4 30 H5G6—H7G6 31 E1E5—C2C1 32 E5E1—C1C2 33 F1G1—G8F7 34 G2G4—F7F6 35 G1G2—C4C3

39 F4C4—C1G1	46 G3F4—C2C3	53 H2G1-B6B5	25 F4E5—A7A5	1-0	64 B1B2-D3C4	22 D1G4-G1E3	02 G1F3-D7D6
40 G3H2—G1F1	47 F4E5—G6G5	54 G1F1—F7F5	26 F1G2—H7H6	10	65 D6E6—C4D5	23 G4G3—E3D2	03 D2D4—C5D4
41 G4F5—F1F2	48 E5D6—F7F6	55 F1G1—G6G5	27 C7C6—C8A7	and the second section	66 E6H6—F7B7	24 G3C3—D2F4	04 F3D4—G8F6
42 H2G3—G6F5	49 C6C7—C3C2	56 G1F1—F5F4		108. CONCHESS -		25 B4B5—F4F2	05 B1C3—A7A6
43 C8G8—G5F6	50 D6D7—F6F5			MEPHISTO	67 B2C2—D5C4		
44 G8F8—F6E5		57 F1G1—H6H5	29 E2B5—B4B5	01 E2E4—E7E5	68 C2D2—B7B8	26 C3D3—0-1	06 F1D3—C8G4
	51 D5C6—C2D2	58 F2F3—B5B6	30 E6G6—H8H7	02 G1F3—B8C6	69 H6F6—H7H5		07 F2F3—G4D7
	52 D7E7—D2E2	59 G1F1—B6B5	31 H1C1—B5B7	03 D2D4—E5D4	70 F6G6—H5H4	111. SC9 - CONCHESS	08 C1E3—E7E5
46 E8C8—F2G2	53 E7D6—E2D2	60 F1F2—B5B6	32 G6C6—F8A3		71 G6C6—C4B5	01 E2E4—E7E5	09 D4B3—F8E7
47 G3H3—D2E2	54 D6C5—D2C2	61 F2G1—B6B5	33 C1C3—D8E8	04 F3D4—D8H4	72 C6D6—B6C5	02 G1F3—B8C6	10 E1G1—E8G8
48 C4C7—F5F4	55 C5B6—C2B2	62 G1F1—B5B6	34 F2F4—B7E7	05 D4B5—H4E4	73 D6H6—B8B6	03 F1B5—C6D4	11 C3D5—F6D5
49 C8D8—D5E5	56 B6A5—B2A2	63 F1E1—B6E6	35 G2F3—H6H5	06 F1E2—F8B4	74 H6H4 and the	04 F3D4—E5D4	12 E4D5—A6A5
50 D8E8—E5D6	57 C6A4—F5F4	64 E1D1—E6D6	36 G4G5-A3B4	07 C1D2—B4D2	game was drawn	05 E1G1—F8C5	13 F3F4—A5A4
51 E8E2—G2E2	58 C7C8—1-0	65 D1C1-D6D4	37 G5G6-H7H6	08 B1D2—E4E5	after many more	06 D1H5—D8E7	14 B3D2—A4A3
52 C7C4—F4F3		66 C1B1-D4D1	38 C3C2—B4A3	09 D2F3—E5F4	moves. 1/2-1/2	07 H5G4—E8F8	15 B2B3—E7H4
53 C4C8—F3F2	105. MEPHISTO -	67 B1A2-D1D4	39 F4F5—E7E5	10 D1D2—F4D2			16 D2C4—D8E7
54 H3G2—E2E1	CONCHESS	68 A2A1-D4D1	40 C6C8—E8D7	11 F3D2—C6B4	109. SC9 - CONCHESS		17 C4B6—E5F4
55 G2F2—C2C1	01 D2D4—D7D5	69 B3B1—D1D4	41 D4E5—A3D6	12 B5C7—E8D8		09 D2D3—C7C6	18 E3D4—H4F6
56 C8C1-E1C1	02 C2C4—E7E6	70 B1B2—D8F8	42 E5D6—1-0	13 C2C3—B4C2	01 D2D4—D7D5	10 B5C4—B7B5	19 D3H7—G8H7
0-1		71 B2E2—F8D8	42 E3D0—1-0	14 E1D1-D7D5	02 C2C4—E7E6	11 C4B5—C6B5	20 B6A8—F6D4
• .			107 MEDILISTO	15 D1C2-D8C7	03 B1C3—C7C5	12 E4E5—A8B8	
	04 E2E4—F8B4	72 A1B2—A7B8	107. MEPHISTO -	16 E2D3—G8H6	04 C4D5—E6D5	13 C1G5—B8B6	21 D1D4—E7E3
104. PRESTIGE -	05 B1C3—B4C3	73 B2B3—B8A7	CONCHESS	17 A1E1—C8E6	05 G1F3—B8C6	14 E5F6—G7F6	22 D4E3—F4E3
	06 B2C3—B7B5	74 E2E8—D4D7	01 E2E4—E7E5	18 D2F3—H6G4	06 G2G3—C5C4	15 G5H6—F8E8	23 A1E1—F8E8
PHILIDOR	07 F1E2—G8F6	75 C8D7—D8D7	02 G1F3—B8C6	19 H1F1—A8E8	07 F1G2—F8B4	16 F3F5—E7E5	24 F1F7—H7G6
01 B2B3—E7E5	08 D1C2—H7H6	76 E8E5—G5G4	03 F1B5—C6D4	20 H2H3—G4F6	08 E1G1—G8E7	17 F5E5—F6E5	25 F7F3—E3E2
02 C1B2—B8C6	09 E4E5—F6D7	77 B3B4—G4F3	04 F3D4—E5D4		09 C1G5—F7F6	18 H6G7—H8G8	26 A8B6—D7F5
03 C2C4—F8C5	10 C2E4—D7B6	78 G2F3—D7D3	05 E1G1-F8C5	21 F3D4—E6D7	10 G5F4—B4C3	19 G7E5—B6E6	27 F3F2—F5C2
04 G1F3-D7D6	11 E4G4—G7G6	79 E5H5—D3F3	06 D1H5-D8E7	22 E1E8—H8E8	11 B2C3—C8F5	20 E5G3-C8B7	28 E1E2—E8E2
05 B1C3—G8F6	12 G4E4—C8A6	80 H5H6—F3E3	07 D2D3—G8F6	23 D3F5—D7F5	12 F3H4—F5E6	21 B1D2—G8G5	29 F2E2—C2D3
06 C3A4—C5B4	13 E1G1—B6D5	81 H3H4—E3E4	08 H5G5—E8G8	24 D4F5—E8E2	13 E2E4-D5E4	22 D2B3—G5D5	30 E2E6—G6F5
07 A2A3—B4A5	14 C1A3—B8C6	82 B4B5—E4E5	09 C1D2—H7H6	25 C2C1—F6E4	14 G2E4—E7D5	23 F1E1—F7F6	31 B6C8—F5F4
08 B3B4-A5B6	15 A1B1—D8D7	83 B5C4—E5F5	10 G5G3—C5D6	26 F5G7—E4F2	15 D1H5—E6F7	24 G3H4—C5E7	32 C8D6—D3B1
09 C4C5—D6C5	16 F1C1-E8C8	84 C4D4—F4F3	11 G3H4—C7C6	27 C1B1—C7B8	16 E4G6—F7G6	25 F2F3—F6F5	33 E6E2-B8A6
10 B4C5—B6A5	17 H2H3-C6B8	85 H6H7—A7A6	12 B5C4—B7B5	28 B1A1—F2D3	17 H4G6—D5C3	26 H4E7—E8E7	34 G2G3-F4F3
11 F3E5—E8G8	18 A3C5—A6B7	86 H7H6—A6B7	13 C4B3—C8A6	29 G2G3—E2H2	18 G6H8—G7G6	27 B3A5—B7C6	35 E2F2—F3E3
12 E5C6—B7C6	19 E4C2—D5B6	87 H6H7—B7C6		30 H3H4—H2C2	19 A1E1—E8D7	28 G1F2—D5C5	36 D6C4—E3D4
13 E2E3—F6E4	20 C5B6—A7B6	88 D4C4—F3F2	14 F2F4—D6C7	31 G3G4—C2H2	20 H5H7—C6E7	29 A1C1—E6E1	37 C4A3—B1E4
14 B2C3—C8G4	21 A2A3—B8A6	89 H7H6—C6D7	15 A2A3—A8E8	32 H4H5—D3E5	21 H8G6—C3D5		38 D5D6—A6C5
15 D1C2—A5C3	22 C2B2—B7C6	90 H6H7—D7E6	16 F1F3—D7D5	33 G4G5—H2G2		30 F2E1—C6D5	39 F2F7—E4C6
16 D2C3—F8E8	23 F3H4—C8B7	91 H7H6—F5F6	17 E4E5—F6D7	34 G7E8—G2G5		31 A2A3—E7F6	40 F7G7—D4C3
17 F1D3—E4F6	24 C1D1—D7E7	92 H6H8—F2F1 = Q +	18 H4E7—E8E7	35 H5H6—E5G4	23 F1E1—D8G8	32 E1D2—C5C8	1-0
	25 H4F3—C6E4	0-1	19 1303-0703	36 A2A3—F7F5	24 E2E7—D5E7	33 A5B3—D5B3	1-0
18 H2H3—G4E6	26 B1A1—C7C6		20 D2B4—C7B6	37 B2B3—B7B6	25 H7E7—D7C6	34 C2B3—C8C1	113. SCISYS MARK V -
19 E1G1—D8D7	27 A3A4—E4F3	106. CONCHESS -	21 A3A4—C5B3	38 F1G1—G5G6	26 E7C7—C6D5	35 D2C1—F6E5	CONCHESS
20 A1D1—D7E7		MEPHISTO	22 C2B3—C6C5	39 G1D1—G4E3	27 C7D6—1-0	36 C1D2—A7A5	01 E2E4—E7E5
21 D1B1—A8D8		01 E2E4—E7E6	23 A4A5—C5B4	40 D1H1—F5F4		37 A3A4—B5B4	02 G1F3—B8C6
22 C3C4—G7G6	29 B5A6—B7A7		24 A5B6—A6B7	41 H1H3—G6G3		38 G2G3—E5D6	
23 B1B7—E7D7	30 B2A2—E7G5	02 D2D4—D7D5	25 A1A7—F8C8	42 H3H4-F4F3	110. CONCHESS - SC9	39 G3G4—D6E5	03 C2C3—G8F6
24 F1D1—A7A6	31 E2F1—D5F3	03 E4E5—C7C5	26 B1D2—C8C1	43 H4F4—G3H3	01 E2E4—E7E5	40 G4G5—E5F4	04 D2D4—E5D4
25 A4C3—D7E7	32 A2C4—F3D1	04 C2C3—B8C6	27 G1F2—C1C2	44 F4F7—E3G4	02 G1F3—B8C6	41 H2H4—D7D6	05 E4E5—F6G4
26 C3E4—F6E4	33 C4C6—G5E7	05 G1F3—D8B6	28 F2E1—C2B2	45 E8F6—H3H1	03 D2D4—E5D4	42 D2E2—F4E5	06 C1G5—D4C3
27 D3E4—D8D1	34 A1D1—E7D7	06 F1E2—C5D4	29 E1D1—H6H5	46 A1B2—H1H2	04 F3D4—F8C5	43 E2E1—E5F4	07 B1C3—F7F6
28 C2D1—E6C8	35 C6F3—D8F8	07 C3D4—G8E7	30 D1C1—B2D2	47 B2C1—G4F6	05 C1E3—D8F6	44 E1F2—F4E5	08 E5F6—G7F6
29 E4C6—C8B7	36 F1E2—D7D5	08 B1C3—E7F5	31 C1D2—G8H7	48 F7F8—B8B7	06 C2C3—G8E7	45 F2G3—E5D5	09 G5F4—F8C5
30 C6B7—E7C5	37 F3D5—E6D5	09 C3A4—B6A5	32 A7A5—B7C6	49 F8F6—F3F2	07 F1C4—C6E5	46 G3F4—D5E6	10 D1E2—D8E7
31 D1A4—E8D8	38 C3C4—F8D8	10 E1F1—C8D7	33 G3H3—G7G6	50 C1D1—H2H6	08 B1D2—F6G6	47 H4H5—H7H6	11 E2E7—C6E7
32 A4A6—D8D1	39 C4D5—D8D5	11 C1D2—A5C7	34 D2C1-H7G7		09 C4F1—E8G8	48 G5H6-E6F6	12 C3B5—C5F2
33 G1H2—D1F1	40 E2C4—D5D7	12 A1C1—C7B8	35 H3G3-E7B7		10 D4F5—E7F5	49 H6H7—F6G7	13 E1D2— E 7D5
34 A6F6—C5A3	41 C4B5—D7C7	13 D2F4—F7F6	36 A5A6—G7F8	52 F2F7—A7A5	11 E3C5—F8E8	50 F4F5—G7H7	14 F4C7—F2E3
35 F6D8—A3F8	42 D1D2—H8D8	14 G2G4—F6E5	37 F4F5—G6F5	53 F7F1—H6H2	12 H1G1—B7B6	51 F5E4—H7H6	15 D2C2—G4F2
36 D8C7—F1F2	43 B5E2—C7C1	15 F3E5—F5D6	38 G3G5—H5H4	54 F1F6—C6C5	13 C5B4—F5H4	52 E4D4—H6H5	16 H1G1—F2E4
37 C4C5—F8E8	44 G1H2-D8D5	16 A4C5—D7C8	39 G5F5—B7B8	55 B3B4—C5B5	14 F2F4—E5C6	53 D4C4—H5G5	17 G1H1—A7A6
38 E3E4—E8A4	45 E2F3-D5D8	17 D1A4—B7B5	40 F5H5—C6B7	56 F6D6—A5B4		54 C4B5—G5F4	18 B5D6—E4D6
39 B7D5—A4C2	46 F3B7-C1C4	18 E5C6—B5A4	41 A6A7—B8C8	57 A3B4—B5C4	15 G2G3—C8B7 16 E1F2—G6F6	55 B5A5—F4Ē5	19 C7D6—E3F2
40 E4E5—C2D2	47 D4D5—C4E4	19 C6B8-A8B8	42 C1D2—H4H3	58 D6B6—C4C3		56 A6B6—E5D4	20 A1B1—D5E3
41 C7D8—G8G7	48 D5D6—E4E5	20 C5A4—C8D7	43 H5H3—C8C3	59 B4B5—C3D3	17 G3H4—C6B4	1-0	21 C2B3—B7B6
42 D8H4—D2E3	49 D6D7—B6B5	21 B2B3—B8B4	44 A7B7—C3B3	60 D1C1—D5D4	18 C3B4—F6D4 19 F2G2—E8E4	1-0	22 B1C1—C8B7
43 C5C6—E3E5	50 B7C8—B5B4	22 A4C5-D6C8	45 B7F7—F8F7	61 B6D6—H2C2			23 D6C7—A8C8
44 H4G3—E5G3	51 D2B2—E5B5	23 C5D7—E8D7	46 B6B7—F7E7	62 C1B1—C2C7	20 D2E4—B7E4	112. CONCHESS - SC9	24 C1C3—B7F3
45 H2G3—F2C2	52 B2B3—B5B6	24 C1C7-D7D8	47 B7B8 = Q	63 B5B6—C7F7	21 G2H3—D4G1	01 E2E4—C7C5	25 G2F3—E3D5
			5/50-0				

				23 D1D4—B2C2	44 E3F2—E6A6	50 G3G2—G7G6	06 C4B5—C7C6
26 C3C2—C8C7	21 E1G1—A5C7	40 C2E2—D5D6	45 C5C7—F6E6	24 C3D1—F8A8	45 F2E1—A6A3	0-1	07 D5C6—B7C6
27 C2F2—C7C1	22 A1D1—A8C8	41 D3C3—G8F8	46 A3A4—D4D2	25 D1E3—C2A2	46 H3G2—H5G4		08 B5E2—H7H6
28 F2D2—D5C7 29 F1G2—C1H1	23 E4F5—D7C6 24 F5D5—C6D7	42 E2E1—F8G8	47 G3F4—D2D4	26 D4A4—C6C5	47 G2F1—G4F4	121. ELITE · SCISYS	09 G5F3—E5E4
30 G2H1—H8G8	25 D5F7—D7C6	43 E1E2—G8F8 44 E2E1—D6C6	48 F4G5—D4D2 49 A4A5—E6E7	27 A4A5—D5D4	48 F1E2—F4E4	MARK V	10 F3E5—F8D6
31 F3F4—G8G4	26 F7D5—C6D7	45 C3D3—C4D6	50 G5F5—D2A2	28 E3D5—D7E6	49 E1D2—B5B4	01 D2D4—G8F6	11 F2F4—D8E7
32 D2D4-G4H4	27 D5F7—D7C6	46 G5G6—D6F5	51 F5G4—A2G2	29 A5C5—A2A3 30 D5C7—A8D8	50 C3B4—E4D4 51 D2E1—C4C3	02 C2C4—E7E5	12 D2D4—E7B7 13 B1C3—E8G8
33 H1B7—H4H3	28 F7D5—C6D7	47 G3H3-F7F6	52 G4H3-G2D2	30 D5C7—A8D8 31 C5C6—E6C8	51 D2E1—C4C3 52 B4B5—A3A1	03 D4E5—F6G4	14 E1G1—F8E8
34 B3C2—H3H2	29 D5F7—G6E7	48 H3H2—F5E7	53 A5A6—E7E6	32 F1C1—A3A5	53 B5B6—C3C2	04 C1F4—F8B4	15 A2A4—C8E6
35 C2B1—H2F2	30 F2F4—C8F8	49 D4D5—E7D5	54 A6A7—D2D3	33 C6C5—A5A4	54 E1D2-C2C1	05 B1D2—D7D6 06 A2A3—D6E5	16 F4F5—E6C8
36 D4D6—F2F4 37 D6B6—A6A5	31 F7B3—C5C4	50 E1E4—D8C8	55 H3G4—D3D4	34 C5C4—A4A5	55 D2C1—A1C1	07 F4G3—B4D2	17 E5G4—F6G4
38 B6D6—E8E7	32 B3C2—C7C5 33 G1H1—E7D5	51 F3D4—F6F5 52 E4E6—D5B4	1-0	35 A6A7—C8B7	56 H4H5—C1B1	08 D1D2—B8C6	18 E2G4—B7C7
39 D6D1—H7H5	34 C2E4—D5C3	53 E6C6—C8C6		36 E5E6—F7E6	57 E2F3—D4E5	09 D2D8—E8D8	19 H2H3—D6G3
40 D1E1-E7F8	35 B2C3—C5A3	54 D3B3—C6C4	117. PRESTIGE ·	37 C7E6—D8A8	58 F3G3—B1B6	10 G1F3-E5E4	20 D1E2—C7D6
41 E1C1—C7E6	36 E4B7—D7E6	55 D4E6—F8G8	CONCHESS	38 C4D4—A5A7 39 D4D7—B7E4	0-1	11 F3G5—C8E6	21 C1E3—A8B8 22 F5F6—C8D7
42 C1C8—F8G7	37 B7D5—E6D7	56 B3E3-C4C2	01 E2E4—E7E5	40 D7A7—A8A7	120. CONCHESS -	12 E2E3—G4E5	23 F6G7—B8B2
43 C8A8—F4F1	38 F4F5—H8G8	57 E6C5—C2F2	02 F2F4—D7D5	41 C1C8—G8F7	PRESTIGE	13 E1C1—D8C8	24 G4D7—D6D7
44 B1C2—F1F5	39 D5B7—D7D8	58 H2G3—F2E2	02 E4D5—E5F4	42 E6G5—F7F6	01 E2E4—E7E5	14 G3E5—C6E5 15 D1D4—E5G4	25 C3D1—B2B4
45 A8A6—F5B5 46 B7H1—B5C5	40 B7C6—D8E7 41 D1D6—A3D6	59 E3E2—B4D3	04 D1F3—D8E7	43 G5E4—F5E4	02 G1F3—B8C6	16 G5E4—F7F5	26 E2H5—F7F5
47 C2D3—C5B5	42 F1E1—E7F6	60 E2E8—1-0	05 F1E2—G8F6	1/2-1/2	03 D2D4—E5D4	17 H2H3—G4E5	27 H5F5—D7F5
48 H1F3—H5H4	43 C6D6—F6G5	116. CONCHESS -	06 D2D4—C8F5 07 C1F4—F5C2	440 00505105	04 F3D4—F8C5 05 C1E3—D8F6	18 E4C5—H8E8	28 F1F5—A5C4 29 E3H6—G3D6
49 D3C3-B5C5	44 D6E7-G5H6	SCISYS MARK V	08 B1C3—B8A6	119. PRESTIGE - CONCHESS	06 C2C3—G8E7	19 C5E6—E8E6	30 C2C3—B4B3
50 C3D3—H4H3	45 G2G4—G8G4	01 E2E4—E7E5	09 G1H3—A6B4		07 F1C4—C6E5	20 F1D3—E5D3	31 F5F6—C6C5
51 A6D6—C5C7	1-0	02 G1F3—B8C6	10 E1G1-E8C8	01 D2D4—D7D5 02 C2C4—E7E6	08 B1D2—E8G8	21 D4D3—E6C6 22 D3D4—B7B5	32 D4D5—B3B6
52 F3D5—H3H2	115, SCISYS MARK V -	03 D2D4—G8F6	11 E2C4—H7H5	03 B1C3—C7C5	09 E1G1—E5C4	23 C1B1—A8B8	33 F6E6—E8E6
53 D3D2—F6F5 54 B2B3—E6G5	CONCHESS	04 D4E5—F6E4	12 A2A3—B4A6	04 C4D5—E6D5	10 D2C4—D7D6	24 D4D5—B5B4	34 D5E6—D6E7
55 D2E3—G5E4	01 D2D4—D7D5	05 F1D3—D7D5 06 E5D6—E4D6	13 F4E5—F6G4	05 G1F3—B8C6	11 D1E2—C8D7	25 A3A4—C6C4	35 D1F2—E4E3
56 D5E4—F5E4	02 C2C4—E7E6	07 E1G1—C8G4	14 C4A6—G4E5 15 D4E5—B7A6	06 G2G3—G5C4	12 E2H5—F6G6 13 H5G6—F7G6	26 D5F5-B8B6	36 F2G4—E3E2 37 A1E1—B6E6
57 D6D1—D7D5	03 G1F3-D5C4	08 D1E1—F8E7	16 F3E2—C2G6	07 F1G2—F8B4	14 A1D1—A8E8	27 F2F4—B6A6	37 A1E1—B6E6 38 G1F2—C4B2
58 E3F4—C7C2	04 D1A4—B8C6	09 F3G5—H7H6	17 E2A6—C8B8	08 E1G1—G8E7 09 A2A3—B4C3	15 F2F3—B7B5	28 F5F8—C8B7	39 E1E2—B2D1
59 F4E5—C2A2	05 A2A3—G8F6	10 F2F3—D8D7	18 A6B5—B8C8	10 B2C3—C8G4	16 C4D2—C5B6	29 F8F7—A6G6 30 G2G4—G6E6	40 F2F1—E6E2
60 E5E6—D5D4	06 B1C3—F8E7	11 G5F7—D6F7	19 B5E2—E7C5	11 A1B1—G4F3	17 F1E1—C7C5	31 F4F5—E6E3	41 F1E2—D1C3
61 E6E5—E4E3 62 E5D5—A5A4	07 H2H3—C8D7 08 A4C4—E8G8	12 F3G4—F7E5 13 D3F5—D7D4	20 G1H1—F8E7	12 G2F3—D8D7	18 D4C2—D7E6	32 F7G7—B7B6	42 E2F3—C3A4
63 B3A4—A2A4	09 C1F4—E7D6	14 E1E3—E8G8	21 H3F4—C5B6 22 C3A4—B6D4	13 E2E4—D5E4	19 D2B3—B6C7 20 C2A3—A7A6	33 G7H7-B6A5	43 G2G3—C5C4
64 D1H1—E3E2	10 E2E3—C6A5	15 B1C3—E7G5	22 C3A4—B6D4 23 E2A6—C8B8	14 F3E4—E8G8	21 D1D2—E7C6	34 H1C1—C4C1	44 G4E3—C4C3 45 E3D5—E7D8
65 D5E4—A4A5	11 C4D3—D6F4	16 E3D4—C6D4	24 A6B5—B8C8	15 D1E2—C6A5	22 A3C2—C6E5	35 B1C1—A7A6	46 H3H4—G8H7
66 E4F3—A5E5	12 E3F4—A5B3	17 C1G5—D4F5	25 D5D6-E7H4	16 E4H7—G8H7 17 E2H5—H7G8	23 C2A3-E5C4	36 H7C7—E3H3 37 C7C6—H3G3	47 F3G4—A7A5
67 F3G3—E5G5	13 A1D1—D7C6	18 G4F5—H6G5	26 A1D1—D4D1	18 H5A5—E7D5	24 A3C4—B5C4	38 C6G6—A5A4	48 G4F5—C3C2
68 G3F2—G5G1 0-1	14 F3E5—C6D5 15 C3D5—D8D5	19 C3D5—F8F7 20 A2E1—A8E8	1-0	19 C1D2—A7A6	25 B3C1—F8F7	39 G6A6—A4B3	49 G7G8—H7G8
0-1	16 F1E2—C7C6	21 F5F6—C7C6	118. CONCHESS -	20 F1E1—B7B6	26 C1E2—E6D7 27 E3F4—E8E6	40 A6G6—G3G2	50 H4H5—A4C5
	17 E1G1—A8B8	22 D5E7—G8H7	PRESTIGE	21 B1B6—D5B6	28 F4G3—G6G5	41 F5F6—G2B2	51 D5C3—A5A4 52 G3G4—A4A3
114. CONCHESS -	18 E2F3—D5B5	23 E1E5-G7F6	01 E2E4—C7C5	22 A5B6—D7B5 23 B6B5—A6B5	29 D2D5—G5G4	42 F6F7—B2F2	53 F5G6—C5D3
SCISYS MARK V	19 D3B5—C6B5	24 E7C6—E8F8	02 G1F3—D7D6	23 B6B5—A6B5 24 E1B1—A8A5	30 E2F4—E6E8	43 G6G7—B3A2 44 C1D1—B4B3	54 C3A2—D8C7
01 E2E4—C7C5	20 D1D3—B3A5	25 E5E6—B7C6	03 D2D4-C5D4	25 H2H3—F8D8	31 F3G4—D7G4	44 C1D1—B4B3 45 D1E1—F2F6	55 A2C1—D3C1
02 G1F3—B8C6	21 B2B4—A5C4 22 F1E1—F8D8	26 E6C6—H7G6 27 C2C4—F8H8	04 F3D4—G8F6	26 G1G2-D8D5	32 D5G5—G4D7 33 F4D5—C7D8	46 F7F8—F6F8	56 H6G5—A3A2
03 D2D4—C5D4 04 F3D4—G8F6	23 E1E2—F6D5	28 C4C5—H8H4	05 B1C3—G7G6	27 D2C1—A5A6	33 F4D5—C7D8 34 G5H5—D7G4	47 G7A7—A2B1	57 H5H6—A2A1 = Q 58 G5E7—A1A6
05 B1C3—E7E5	24 F3D5—D8D5	29 F1C1—A7A5	06 F1B5—C8D7 07 C1G5—B8C6	28 G2F3—F7F5	35 H5H3—G4H3	48 G4G5—B3B2	0-1
06 D4B5—D7D6	25 H3H4-B8D8	30 C6E6-A5A4	07 C1G5—B8C6 08 G5F6—E7F6	29 F3G2—G8F7	36 G2H3—E8E6	49 G5G6—B1C2	0-1
07 C1G5-A7A6	26 E5F3—D5F5	31 C5C6—G6F5	09 D4F3—A7A6	30 B1B2—A6E6 31 B2A2—E6A6	37 G1G2—F7B7	50 A7C7—C2D3	
08 G5F6—G7F6	27 G2G3—F5D5	32 E6E8—F7C7	10 B5C6—B7C6	32 A2D2—F7F6	38 E1E2—D8G5	51 C7D7—D3C2 52 D7C7—C2D3	123. ELITE - SCISYS
09 B5A3—C8E6	28 E2E4—C4B2	33 C1C5—F5G6	11 E1G1—F8E7	33 D2E2—A6A7	39 G3F4—G5F4	53 C7B7—D3C2	MARK V
10 F1C4—D8B6	29 D3C3—B2C4 30 G1G2—H7H6	34 E8D8—H4B4 35 D8D2—B4B6	12 D1D4—E8G8	34 F2F4—A7A8	40 D5F4—E6E8 41 G2G3—E8B8	54 B7C7—1/2-1/2	01 D2D4—G8F6
11 C3A4—B6A5 12 C2C3—B7B5	30 G1G2—H7H6 31 E4E2—D8D6	35 D8D2—B4B6 36 D2C2—F6F5	13 A2A3—A8B8	35 E2E5—A8D8	41 G2G3—E8B8 42 E4E5—B7B2		02 C2C4—C7C5
13 C4D5—E6D5	32 A3A4—A7A6	37 G1F2—G6F6	14 B2B3—D8B6 15 D4B6—B8B6	36 G2F3—D8D7	43 E2B2—B8B2	122. SCISYS MARK V -	03 D4D5—E7E6 04 B1C3—E6D5
14 E4D5—C6E7	33 G3G4—H6H5	38 F2F3—A4A3	16 H2H3—F6F5	37 G3G4—G7G6 38 G4F5—G6F5	44 E5D6—B2A2	ELITE	05 C4D5—D7D6
15 D1F3—F6F5	34 G4G5—D6C6	39 B2A3—B6A6	17 E4E5—B6B8	39 H3H4—F6G6	45 F4E6—A2D2	01 E2E4—E7E5	06 E2E4—G7G6
16 A4C5—D6C5	35 E2C2—D5D8	40 C2C3—A6A4	18 A1D1—D6D5	40 E5D5—D7D5	46 D6D7—D2D7	02 G1F3—B8C6	07 G1F3—C8G4
17 D5D6—E5E4	36 G2H3—C6D6 37 C3D3—D6D5	41 C3D3—G5G4 42 F3G3—A4E4	19 B3B4—A6A5	41 F3G3—D5D6	47 E6C5—D7D2 48 H3H4—A6A5	03 F1C4—G8F6	08 F1B5—B8D7
18 F3H5—E7G6 19 H5F5—F8D6	37 C3D3—D6D5 38 A4A5—D5F5	42 F3G3—A4E4 43 D3D7—C7D7	20 B4A5—B8B2	42 C1E3—G6H5	48 H3H4—A6A5 49 C5A4—D2D3	04 F3G5—D7D5 05 E4D5—C6A5	09 E1G1—F8G7
20 F5E4—E8D7	39 H3G3—F5D5	44 C6D7—E4D4	21 F3D4—E7C5 22 A5A6—C5D4	43 G3H3—D6E6	TO COME DEDO	00 E4D0—00M0	10 C1F4—A7A6
			-E AJAU-0JD4			97	

11	B5E2—G4F3	125.	ELITE - SCISYS	30	B1F1—G8H8	40	E8E6—C3C6
12	E2F3—D8B6		MARK V	31		41	E6C6-C7C6
13	A1C1—E8G8	01	E2E4-E7E5	32	F1D1—E7G6	42	D5H5—1-0
14	F3E2—A8B8	02	G1F3-B8C6	33	B4D6—C7C4		
15	D1D3—F6H5	03	F1B5-G8F6	34		128.	SCISYS MARK V .
16	E2H5—G6H5	04	E1G1-F6E4	35			ELITE
17	D3G3—H5H4	05	D2D4-E4D6	36		01	E2E4—C7C5
18	G3H4—B6B2	06	B5C6-D7C6	37		02	B2B3—G8F6
19	H4G3—D7E5	07	D4E5-D6E4	38		03	D2D3—D7D6
20	F4H6—E5G6	80	D1D8—E8D8	39		04	F1E2—E7E5
21 22	H6G7—G8G7	09	C1E3—F8E7	40		05	C1B2—F8E7
23	G3D6—B7B6 D6G3—F8E8	10	F1D1—C8D7	41	A7G1—C1B1	06	G1F3—E8G8
24	F1D1—C5C4	11	B1D2—E4D2	42		07	E1G1-B8C6
25	C1B1—B2A3	12	D1D2—D8E8	43 44		08	B2C3—C8D7
26	D5D6—E8D8	13	F3D4—C6C5	45		09	B1D2—F6G4
27	D1D5—B6B5	14	D4E2—A8D8	46		10	A2A3—E7H4
28	D6D7—B5B4	15	E2F4—D7C6	47		11	D2C4—D7E6
29	G1F1—A3C3	16	D2D8—E8D8	48		12	F3H4—D8H4
30	G3C3-B4C3	17 18	C2C4—G7G5	49		13	E2G4—E6G4
31	B1B8-D8B8	19	A1D1—D8C8 F4D5—C6D5	50		14	F2F3—G4E6
32	D5D4—C3C2	20	C4D5—H8D8	51		15	C4D6—H4E7
33	D4C4-G6F4	21	F2F4—G5G4	52		16	D6F5—E6F5
34	F1E1—C2C1	22	F4F5—D8E8	53		17	E4F5—E7G5
35	C4C1—F4D3	23	E5E6—F7E6	54		18	G2G4—A8D8
36	E1D2—D3C1	24	D5E6—E8F8			19 20	C3D2—G5F6 D2E3—F6D6
37	D2C1—B8D8	25	D1D7—E7D6			21	F1E1—F8E8
38	E4E5—D8D7	26	D7F7—H7H5	127.	ELITE - SCISYS	22	E3G5—C6E7
	0-1	27	F7F8-D6F8		MARK V	23	F3F4—D6D4
		28	F5F6—F8D6	01	E2E4—C7C5	24	G1H1—F7F6
	00101/0 114 01/ 1/	29	F6F7—G4G3	02	G1F3-B8C6	25	G5H4—D4F4
	SCISYS MARK V	30	H2G3—H5H4	03	D2D4—C5D4	26	B3B4—E7F5
	ELITE	31	G3H4—B7B5	04	F3D4—G8F6	27	E1F1—F5E3
01	E2E4—E7E5	32	E3G5—C8B7	05	B1C3—E7E5	28	F1F4-E3D1
02	D2D4—E5D4	33	E6E7—1-0	06	D4B5—D7D6	29	F4F3-E5E4
03 04	D1D4—B8C6			07	C1G5—A7A6	30	D3E4—C5B4
05	D4E3—G8F6 C1D2—B7B6	126.	SCISYS MARK V			31	A3B4—E8E4
06	B1C3—F8C5		ELITE	09		32	A1A7—E4G4
07	E3G3—E8G8	01	D2D4—G8F6	10		33	H4E1—G4E4
08	E1C1—C6B4	02	C2C4-E7E6	11	C3D5—E6D5	34	F3F1—D1E3
09	F1C4—C8A6	03	B1C3—F8B4	12 13		35	F1F2—E3G4
10	C4A6—B4A6	04	F2F3—D7D5	14	C4B3—D8D7 A3C4—B6C7	36	F2F1—D8D1
11	F2F4 D7D5	05	A2A3—B4C3	15	D5D2—B7B5	37	A7B7—E4E1
12	E4E5-F6E4	06	B2C3—D5C4	16	C4E3—F8H6	38	B7B8—G8F7
13	C3E4-D5E4	07	D1A4—C8D7	17		39 40	F1E1—D1E1
14	D2C3—D8E8	80	A4C4—E8G8	18		40	H1G2—G4E3 G2F3—E3C2
15	G1E2—E8E6	09	E2E3—B8C6	19		41	0-1
16	A2A3—A8D8	10 11	E3E4—E6E5	20			0-1
17	E2D4—C5D4	12	F1D3—F8E8 G1E2—E5D4	21	E4F5-E6F4		
18	C3D4—E6A2	13	C3D4—D7E6	22	G2G3—F4D5	129.	ELITE - SCISYS
19	C2C3—C7C5	14	C4C3—C6E7	23	D2D5—C8B8		MARK V
20	D4E3—A6C7	15	E1G1—C7C6	24		01	E2E4-E7E5
21	F4F5—F8E8	16	A1B1—D8C8	25		02	F2F4—F8C5
22 23	G3F4—A2C4 D1D8—E8D8	17		26			G1F3—D7D6
24	F4G5—C4D3	18	E2F4-C6C5	27		04	C2C3-G8F6
25	H1E1—H7H6	19	B4C3-C5D4	28		05	F4E5-D6E5
26	G5G3—A7A6	20	C3D4—E8D8	29		06	F3E5—D8E7
27	E5E6—C7D5	21	D4F2—F6H5	30		07	D2D4—C5D6
28	E1D1—D3D1	22	F4H5—D8D3	31 32	D2D7—F6E7 B2B3—F7F5	80	D1E2—D6E5
29	C1D1—D5E3	23	C1B2—F7F6	33		09	D4E5—E7E5
30	D1E2-E3F5	24	H5F4—D3D8	34		10	E2B5—B8D7
31	G3C7—D8F8	25	F4E6—C8E6	35		11	B1D2—C7C5
32	E6E7—F5E7	26	B2C3—A8C8	36		12	F1D3—E8G8
	1-0	27 28	F1C1—E6D6	37		13	E1G1—A7A6 B5B3—E5D6
		28	C3B4—D6D7 C1C8—D8C8	38		14 15	D3E2—D7E5
		23	5100—D000	39	F5D5—D8F6	13	DULE-DILD

```
16 D2C4-E5C4
                 130. SCISYS MARK V .
17 E2C4-B7B5
                     ELITE
18 C4D5-C5C4
                  01 E2E4-E7E5
19 B3D1-D6C5
                  02 G1F3-B8C6
20 F1F2-C8G4
                  03 C2C3-D7D5
21 D1D4-C5D4
                  04 D1A4-D8D6
22 C3D4-F6D5
                  05 D2D4-E5D4
23 E4D5-A8D8
                  06 E4D5-D6D5
24 F2F4-G4C8
                  07 F3D4-G8E7
25 C1D2-G7G5
                  08 C1E3-C8F5
26 F4E4-D8D5
                  09 B1D2-E8C8
27 D2C3-C8F5
                  10 E1C1-C6D4
28 E4E7-F7F6
                  11 E3D4—A7A6
12 F1C4—D5G2
29 E7A7—F5C8
30 A1E1-D5D7
                  13 C4F7-G2C6
31 A7D7—C8D7
                  14 A4C4-C6C4
32 D4D5-G8G7
                  15 D2C4-E7C6
33 E1E7—F8F7
                  16 C4E3-F5E4
34 D5D6—G7G6
35 G1F2—F6F5
                  17 H1G1-C6D4
                  18 D1D4—D8D4
36
  F2F3—F5F4
                  19 C3D4—C8D8
37 F3E2-D7G4
                  20 G1G5-H7H6
38 E2F2-H7H5
                  21 G5E5—E4H7
39 A2A4—G4D7
                  22 E3F5-G7G6
40 A4B5-A6B5
                  23 E5D5-D8C8
41 C3B4-D7F5
                  24 F7E6-C8B8
42 F2F3—F5G4
                  25 D5D8-B8A7
43 F3E4—G4D7
                  26 F5E7-F8G7
44 E4D4—D7C6
                  27 D8D7-G7F6
45 E7E6—F7F6
                  28 D7C7-A7B8
46 D4E5-F6E6
                  29 C7D7—H8E8
47 E5E6-C6G2
                  30 E7D5-F6D4
48 D6D7-G2H3
                  31 D5C7-E8C8
49 E6E7-H3D7
                  32 D7D4-C8C7
50 E7D7-F4F3
                  33 C1D2-G6G5
51 B4E1-B5B4
                  34 D2E3-C7E7
52 D7E6-C4C3
                  35 F2F4-E7E6
53 B2C3—B4B3
                         0-1
54 E1F2—B3B2
55 E6E7—B2B1 = Q
      0-1
```

98

USED CHESS COMPUTER MART

Perfect chess! Mathematical solution discovered. Seeking *working* partnership to win FIDE world championship. 950 Monika Way, Las Vegas. Nevada 89119. 1 (702) 798-6248.

Purchasing technical books, magazines and documents on all phases of Computer Chess. Technos Illuminati 950 Monika Way Las Vegas, Nevada 89119

AVE MICRO SYSTEMS AUTO-RESPONSE BOARD WITH SARGON 2.5 PROGRAM, \$450.00. Call (312) 852-6139. Ask for George.

NOVAG MICROCHESS — batteries or AC adapter — 8 levels — stores position — \$50.00 (516) 226-7347.

SCI SYS EXECUTIVE CHESS COMPUTER. In good condition. Adapter included. Price: \$70.00. Call before 8 p.m. evenings. (415) 221-9566.

ELITE — Good Condition — \$500.00 — Dan Ellwein, 4250 S. Rhett — Lot #11, Charleston, S.C. 29405 — (803) 554-0446

Fine Condition. Limited Edition Elite - \$599.00 Samuel S. Miller, 1204 Norwood Pl., Orlando, FL 32804.

(305) 889-2514 - (305) 422-2093

ELITE FOR SALE. Washington, D.C. (approximately 6 months old) \$600 negotiable, call (202) 399-7153. Leave message if not home.

BORIS CHESS COMPUTER \$150 & FRENCH WOOD SET \$20. Ross A. Holmes, 6089 Blacklock Court, San Jose, CA. 95123

CHESS CHALLENGER "7" in excellent condition. Send \$50.00 to Donald E. Wilson, 3038 E. Willis Ave., Fresno, CA 93726.

APPLIED CONCEPTS MASTER CHESS TRIO (Gruenfeld, Morphy, Capablanca) \$175. Rick Mitchell, 247-6 Echelon Rd., Voorhees, NJ 08043 or (215) 299-2176.

STAUNTON IVORY CHESS SET in original red and gold casket marked Jaques London 1862. Some repairable nicks. (206) 588-0646 for photos. \$600.

FIDELITY — CHAMPION/like new/\$230.00 or best offer. Tom Braun — 3947 Huron Ave., Culver City, CA. 90230. (213) 836-1967.

MGS WITH SARGON 2.5 will take Morphy, Steinitz, etc. \$100. Terry Weddleton, Box 459, Durham. NH 03824.

Modular Game System, with battery; Gruenfeld, Morphy, Sargon 2.5 Modules. Best offer together or separately. Pfefferkorn, Box 855, APO NY 09403.

FIDELITY VOICE Sensory Chess Challenger \$195.00. Boris \$75.00. Send check to: Aneel Pandey, 44 Hoffman Road, New Hartford, NY 13413.

CAPABLANCA Module 98, Modular Game System with Boris 2.5 \$75 (needs repair). Alfonso Melendez, 2469 E 9800 S, Sandy, Utah 84092

GREAT GAME MACHINE with Gruenfeld opening, Morphy middle game and Capablanca end game. Nearly new — used once. Selling for \$325. Call Tony at (201) 247-4091.

GREAT GAME MACHINE with Gruenfeld opening, Morphy middle game and Capablanca end game. Selling for \$325.00. Call Tony at (201) 247-4091.

FIDELITY SENSORY CHALLENGER 8 — never used. \$90.00. Also Senory Voice Challenger \$235.00. Boisson, 737 N. Shore Rd., Rio Grande, N.J. 08242.

MGM, 2.5 Sargon, Borchek, Las Vegas, Transformer — \$165. Like new (516) 427-2626 days; (516) 979-9769 evenings — Gottlieb.

FIDELITY VOICE CHESS CHALLENGER \$100. Great game machine with Murphy Cartridge \$200. 215 East 61 Street, N.Y., N.Y. 10021. (212) 838-6509.

CHESS CHALLENGER 7 in excellent condition. Limited warranty - \$45. Call (512) 478-1751.

"PRESTIGE"

Pre-Purchase, Second-owner option!
Any cash/trade offer? Other items?
A. Sonny Aiello
497 Washington Street
Brighton, Massachusetts 02135

GREAT GAME MACHINES — Morphy Edition with battery pack — new condition \$200.00. (914) 636-5579.

GREAT GAME MACHINE including Morphy, Gruenfeld, and Capablanca Cartridges, and Borchek Checkers. Excellent condition \$350.00. Call 1 (513) 885-7200 or write Robert Groves, 8051 N. Lebanon Pk., Waynesville, Ohio 45068.

ONE YEAR OLD Auto Response Board as new. Complete with two cartridges - Boris 2.5 and 3.0 brandmaster. Phone (404) 798-3091.

AVE GRAND MASTER Auto Response Board with 3.0 cartridge. \$495. Ted Cullen 714-624-5897

CHALLENGER 7

Great condition — must sell! List: \$115.00 Only: \$59.95 (or best offer). Jeff R., W-519 Deseret Towers, Provo, Utah 84604. (801) 377-5051.

SALE OR TRADE: Challgr. 8 and Bridge Voice Challgr. toward Chall. 9 or Borchek or GGM or \$75.00 and \$150. Like new under warranty! Larry Raines, Rt. 2, Bx-7, Robbinsville, N.C. 28771

APPLIED CONCEPTS' GRUENFELD, updated \$60; Morphy, \$60; Capablanca, updated, \$90; all, \$200. Mark Stitham, 334 Ilimalia Loop, Kailua, HI 96734. (808) 377-5429.

THAT IS: ELITE #00000140 — perfect condition. \$600.00 firm. (Roy P. Elbourn, RT #1 Box 285, Rock Hall, MD 21661). Ph: (301) 639-7170.

FIDELITY CHESS CHALLENGER 7 in excellent condition. Guaranteed. \$45. (512) 478-1751. John House, 40163 Maplewood, Austin, TX 78722.

SELLING FIDELITY CHESS CHALLENGER "8"! Less than year old, hardly used, excellent condition. \$80.00. Call Dave (312) 968-1093.

FIDELITY ELECTRONICS COMPUTER, Elite Model, for sale. Guaranteed excellent condition with carrying case. \$700 or best offer. Al Vreeland (214) 521-0547.

ELITE CHESS CHALLENGER. Rated at 1915! Factory upgradable. \$540.00 plus shipping (negotiable). Call (212) 271-7142 4-5 pm (NY) Thurs./Fri.

ELITE (FIDELITY). 30% off ICD's low price. Like new (obviously!) (202) 234-7582. P. Milvy, 1907 S St., N.W., Washington, D.C. 20009.

Elite, Mark V and Great Game Machine 40% off list. Robert Nichols, 3232 Parkwood Lane, Maryland Hgts., MO 63043.

ELITE #64. Like new! No name or plaque. First \$500.00. W. Manley, (213) 357-8496, 1046D Royal Oaks, Monrovia, Calif. 91016.

FIDELITY ELITE. Excellent condition. Asking \$675.00 or best offer. Daryl Lakes, 105 N. Grant, Indianapolis, IN 46201 — (317) 357-3478.

FOR SALE

Morphy Module	\$ 50				
Upgraded Gruenfeld	\$ 60				
Upgraded Capablanca	\$ 80				
Champion Sensory Challenger	\$250				
Chess Champion Mark V					
Mark Caddia					

Mark Gaddis 3516 Vista Grander N.W. Albuquerque, New Mexico 87120 Tel. (505) 831-1706

FOR SALE — Chess Challenger "7" \$70 or trade for chess clock. 1-(603)-431-6136. Raymond E. Littlefield, 491 Marcy St., Portsmouth, NH 03801

GREAT GAME MACHINE, including Gruenfeld Opening, Morphy Middlegame, Capablanca Endgame cartridges — Offer Price — Pay After Inspection. Call (404) 634-0240. David Spinks.

FOR SALE: Fidelity Chess Challenger 7 — \$35 Voice Sensory Chess Challenger — \$150 Bill Green, 1005 Brookwood Dr., Tallahassee, FL 32308. (904) 877-5954.

TRS-80 cassettes — SARGON II; GAMBIET 80 — TANDY CHESS COMPUTER — All three for \$45.00! Interested in forming a computer postal chess club? Write or phone: Les Roselle, 111 Amber St., Buffalo, NY 14220. (716) 825-8281.

Factory replacement Morphy Edition Great Game Machine unopened \$150, Bodon, Bx 104 Key Largo, FL 33037.

Must sac my beloved MCT (with improved Grunfeld) for college funds. Asking \$550. Randy Kaech, Lebam, WA 98554. Borchek included. (206) 934-6321.

GGM with latest update — Capablanca, Morphy and Grunfeld, extra transformer \$350.00 firm. Stephen Barbre, 1330 Laguna, Las Vegas, Nev. 89109. (702) 734-1722.

Chess, Backgammon Lessons; Simultaneouses or Lectures; Northern Philadelphia suburbs, USCF Master Dan Heisman, (215) 968-6092; 102 Chesapeake Drive, Newton, PA 18940.

Chess Challenger "7" LIKE NEW in original box — Sell \$55.00. (516) 271-4642.

MODULAR GAME SYSTEM: Boris 2.5, (mct) series and Borchek checker programs \$395.00 "firm". Terry Presgrove (405) 255-5696. Route 5, Box 521, Duncan, OK 73533.

Strong MGS with MORPHY, upgraded CAPABLANCA, and bonus BORIS 2.5 modules. Excellent condition. \$195 or reasonable offer. Call Ben, (607) 257-6287.

FIDELITY'S Voice Sensory and Voice Challenger Computers with cases for \$100 each. Excellent condition. David Lewis, 435 Fulmer Ave., Akron, Ohio 44312. (784-1329)

2 COMPUTER CHESS CHALLENGER'S for sale. Call 1-(419) 472-5142 after 6:00 p.m. or 1-(419)-243-6062 between 8:00-5:00.

FOR SALE! Great Game Machine plus Morphy cart., executive chess. Call Jay Cannata, 12 Ramapo Valley Rd., Oakland, NJ 07436. (201) 337-0390.

FOR SALE — Fidelity Electronics Chess Computer withvoice, A-one condition, carrying case. Lawrence Anna, 415 West St., Ebensburg, PA. 15931. (814) 472-7841.

TRANSFORMER — FID MINI NEW \$9. pp. CNF 2719 N. 67, Milwaukee, Wisconsin 53210. (414) 774-1505.

GGM-GRUENFELD, Morphy and updated Capablanca. Includes rechargeable battery pack and carrying case. Like new. \$400 firm. Leroy Valley (313) 687-5682.

GREAT GAME MACHINE with Morphy edition. Perfect condition - \$150.00. Brandon, 7710 SW 114 St., Miami 33156. (305) 238-3485 Used Game Machine — Morphy, Capablanca, Gruenfeld, battery. \$590 cost — \$350.; Sci-Sys \$129 cost — \$90. Call Allen (213) 933-9517.

Great Game Machine, 21, Gruenfeld, Morphy and Capablaca. \$300.00, Bill Hojnackl, 460 Luella Ave., Calumet City, IL 60409. (312) 862-2665.

Challenger "7" \$50.00. Chess Life Magazine Year sets \$10.00 1967 thru 1980. Ron Parks, Route 1, Box 966, Gravois Mills, MO 65037. (314) 372-2283.

TRADE S.C.C. 8 or C.C.7 for your game. Both mint in original boxes. Gregory Cenzer, (313) 268-6152.

"GRUENFELD" CARTRIDGE, like new, best offer. Great opening program, improves "Morphy's" play. Jack Sheedy, Cedar Lane, New Hartford, CT 06057.

GGM with Morphy cartridge. Less than one year old. \$175 or best offer. (201) 871-3957.

FIDELITY MINI Sensory Chess challenger with Advanced Program cartridge. New July '82. \$69. Frank Huber, 137½ Eagle, Utica, New York 13501.

GGM complete with 3 upgraded cartridges, Gruenfeld, Morphy, Capablanca, battery pack, etc. Mint condition \$175. Voice Challanger great shape \$35.00. Ronald Gutowski, 1904 Bellflower Court, Edgewood, MO 21040. (301) 679-2860.

CHESS CHALLENGER "7". Excellent condition, seven levels of play, original box. Please make offer. Gary O'Brien (609) 779-7037.

Great Game Machine carrying case \$15.00, Morphy Module \$45.00, Two Power Supply's \$5.00 each. Call (303) 599-5438 ask for Ken.

CHESS CHALLENGER 8 sensory microcomputer, \$70/best, 6 mos. old, call (315) 682-7636. D. M. Kirchoff, Oran-Delphi Rd., Manlius, NY 13104.

FOR SALE: Modular Game System, Morphy Module. Perfect, \$100. David Burbank, 300 Mansion House, St. Louis, MO 63102. (314) 421-5140.

COMPUTER CHESS DIGEST

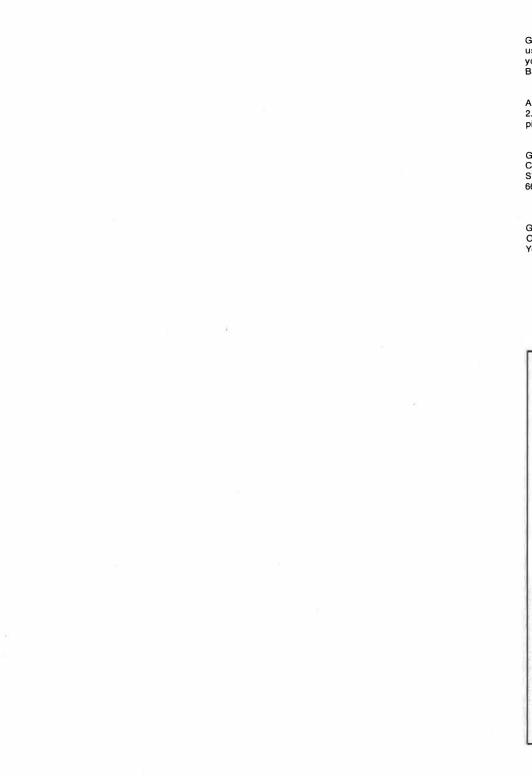
Computer Chess Digest Inc. 34 Copperdale Lane Huntington, N.Y. 11743

SUBSCRIPTION(s): one year (2 Major Issues, 2 Newsletters)

FIRST CLASS MAIL ONLY \$30

Name		., ., ., ., ., ., ., ., ., ., ., ., ., .	
Address			
City	State	Zip	

MAKE CHECK PAYABLE TO: COMPUTER CHESS DIGEST INC. OR CALL: 1 (800) 645-4710



GREAT GAME MACHINE, Carrying case, unused Morphy Module, Assembled Nicads. Make your offer. Mandelson, 4304 Forest Park Ave., Baltimore, MD. 21207.

A.V.E. AUTO RESPONSE BOARD with Sargon 2.5 program — \$450.00. Sci Sys Chess Champion Mark V \$200.00. Call (212) 441-2863.

GREAT GAME MACHINE with Morphy and Capablanca Modules, \$295.00. Bob Hyde, 15695 SW 82 Circle LN #11, Miami, FL 33193, (305) 667-7777 weekdays.

FIDELITY SENSORY 8
Good condition. Best offer. New York City area.
Oscar Weinberger, 240 Madison Street, New
York, N.Y. 10002.

Great Game Machines with Morphy Cartridge \$150. Gruenfeld opening cartridge \$45. Excellent condition. Landon Davis, 2474 Avalon, Troy, Mich. 48084, (313) 528-1156.

AUTO RESPONSE BOARD with 2.5 and 3.0 modules. Like new. \$400.00. Write: Fisher, Apartado 20233, Caracas, Venezuela 1020A.

Great Game Machine — 3 modules, case, \$325. Sci Sys Mark V, \$225. Michael Twedt, 411 Balsam, Elmira, NY 14904. (607) 733-9323.

CHESS CHALLENGER 10 — \$50. Send certified check or money order. Write me for guarantee. Graciano Sison, Box 925, Olla, LA 71465.

Want to buy bound chess magazines and old chess books, especially problems, end games, Wallace 8633 Springfield, Skokie, IL 60076.

NOTES:

