SELECTIVE SEARCH The COMPUTER CHESS Magazine

Est. 1985 **Issue 74** Editor: Eric Hallsworth
Feb-Mar98 £3.50



Ed Schroder + REBEL92594Mark Uniacke + HIARCS62586Franz Morsch + FRITZ52572Amir Ban + JUNIOR4.625??Marty Hirsch + MCHESS PRO72561+Richard Lang + GENIUS52549Stefan Meyer-Kahlen + SHREDDER225??Chrilly Donninger + NIMZO'9825??

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- ARTICLES, REVIEWS, GAMES sent in by Readers, Distributors, Programmers etc are welcome.

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• All COMPUTER CHESS PRODUCTS are available from COUNTRYWIDE COMPUTERS, Victoria House, 1 High Street, Wilburton, Cambs CB6 3RB.

2 01353 740323. FREE CATALOGUE on request.

• **ERIC** is at **COUNTRYWIDE**, Mon-Fri, 1.00-5.00. Readers are welcome to ring.



Computer BEST BUYS - Editor's Choice

The **RATINGS** for the computers and programs which follow can be found on pages 27 and 28. I have not tried to include all available machines - this is my 'short list' of what *I* consider to be the current '**BEST BUYS**' at various price points and playing strengths, also bearing in mind features and quality etc.

PORTABLE COMPUTERS

Kasparov (price reductions underlined!)
TALKING COACH £49 - talks + travels!
TRAVEL CHAMPION £89! - with display
TRAVEL CHAMP 2100 now £99! - great
value, 4½"x4½" plug-in board + display
Novaa

AMBER £129 - excellent plug-in, strong as TC2100 and well-featured with display. SAPPHIRE2 £224 - strong calculator style

TABLE-TOP PRESS-SENSORIES

Fidelity

CHESSTER £169 - voice model, 160 BCF Kasparov

EXECUTIVE £99 - GK-2000 Morsch prog. Display etc, plus lid cover. Terrific value! GK-2100 now £129! - top quality Morsch program, clever display, recommended.

Novag

DIAMOND2 £249 - **NEW**: strong, good features, big opening book and A1 value! **Mephisto**

DALLAS 68000XL £175 - on special offer NIGEL SHORT £199 - laptop lid, Staunton + disc pieces, graphic display - great!

MILANO PRO £249 - Morsch at speed!

ATLANTA £379 - NEW: fast hash-table version of Milano Pro = greater strength!

WOOD AUTO-SENSORIES

Kasparov

PRESIDENT £299 - top value wood board... ever! - good display + features.

Mephisto

EXCLUSIVE MM6 £449 - new Morsch module - high class, strong & quality! *Tasc*

R30-1995 £1245 - beautiful machine, piece recognition board, superb display & with very strong, dynamic chess!

Further info. is given in Catalogues available from COUNTRYWIDE - see their address on the front page. It is always worth ringing to check any extra cost for a mains transformer where applicable, but 48 hour insured post and packing are included free to SS readers. This list is brought upto-date for each Issue of my Magazine.

PC PROGRAMS

HIARCS6 £89 - NEW CD for PC and MAC! - excellent 'human-like' playing style, very strong (top!), great analysis features; 2 books: 140,000 tourny, 300,000 practice! GENIUS5 GOLD (CD ROM) £89 - excellent graphics/strength/quality; 220,000 main book + extra book, big database. FRITZ5 (CD ROM) £89 - improved knowledge, superb features & graphics. Add £49 to include NEW JUNIOR engine. REBEL9 £89 - another Schroder 'special'! Also NIMZO98 £89, SHREDDER2 £89, MChessPRO7 £89, CS_TAL £49... but please allow 7 days for delivery on these.

PC DATABASES

ChessBASE for Windows 6.0 (CD) NEW "The" games and work DATABASE, now Multi-media and with Player 'cyclopaedia. 'Basic' package 260,000 games £225 'Prof' package 340,000 games+ £325 'Mega' package 550,000 games+ £449 Analysis modules, to use within CBase (or Fritz5): HIARCS6 £45 - indispensable! or JUNIOR (NEW, World Champ) £49.

BOOKUP for Windows £159 - *very* useful tool, now incl. Zarkov analysis module.

SECOND-HAND & EX DEMO

All with 9 month guarantee & adaptor! Wood, auto sensory
Mephisto ACADEMY £245

Mephisto MONTREAL £265

Press sensory

Fidelity MACH2 68000 £115 Mephisto MILANO £129 Fidelity MACH3 68000 £129 Fidelity DESIGNER MACH3 £149

Portables (no adaptors with these!)

TRAVEL CHAMPION £45 Novag SUPER VIP £35

JUNIOR... the new World Micro Computer Champion, but is it about to JOIN the SENIORS!?

SHOCK VICTORY

We have had earlier versions of **Junior** in our Rating List for some time - notably 3/3.5, and now 4. It wasn't actually commercially available, but they've been doing some heavy testing of a text version in Sweden, and I felt the results warranted its inclusion in our list.

Not that it's become a table-topper: indeed it stands some 80 Elo behind the leaders. Therefore playing in the company of last year's winner Shredder, MChessPro7, Ferret of Internet renown on very fast hardware, the popular new Fritz5, plus new versions of Virtua and Nimzo, Junior was not generally expected to win the WMCC!

But it did! And hearing that it is now being brought out as an engine, like Hiarcs6, to run from within Fritz5, the time seemed right to have a look at its play in a little more depth.

A Meeting with JUDIT POLGAR

We start off by going back a year, and to an earlier version of **Junior**, when it played a 6 game Match against Judit Polgar.

Polgar, J (2650) – Junior3.0 **B93**. Match game 1, 04.1996

1.e4 c5 2.2f3 d6 3.d4 cxd4 4.2xd4 2f6 5.2c3 a6 6.f4 2bd7 7.2f3 \u2218c7 8.a4 g6 9.Qd3 Qg7 10.0-0 0-0 11.\end{a}e1 \frac{1}{2}c5 12.\end{a}e4!

Warning bells should ring right now! 12...2xd3?!

12...b6 13.\(\partial\)d2 \(\partial\)b7= 13.cxd3 **⊉e6** 14.**₽h1 ☐ac8**



15.f5!

Judit heads for the big attack. 15...gxf5 16.@h6 @xh6 17.\xh6 \b6

18. ab1 ⊎b4 19. g5 ac5??
With this move Black loses his chances to save the game. Probably vital was 19... \$\mathbb{U}\$d4 if the position can be saved, though 20.2f3! would follow. 20.De2!

20.\mathbb{I}f3! is also strong here, but Judit's attack, heading the knight towards f4 and h5, will win the game for White on h7. 20...\(\mathbb{d}\)d7??

An 'oversight'. But Black was lost any—way. Even 20... d2 21. 2f4! fxe4 22.\dd1+-21.包g3

Which is m/5. 21... d2 22. 2h5 dxg2+ 23.\$\psixg2 \mathbb{\mathbb{G}}c2+ 24.\$\psig1 \mathbb{\mathbb{G}}g2+ 25.\$\psixg2 \mathbb{\mathbb{G}}xh5 26.\psi xh7#. 1-0

The Match ended up 4-2 for Judit, which would put **Junior3.0** on around 2500, which is a little lower than the rating version4.0 currently has from many games played in the Israeli Chess League.

The WORLD CHAMPIONSHIP

Junior4.6 enjoyed a comparatively easy start against quite moderate opposition in the WMCC, disappointing with only a draw against Eugen, before beating pre-Tournament favourite Ferret in round 4. After that game it led jointly with Virtua Chess and MChess Pro7, all on 3½/4.

Virtua Chess – Junior4.6 B82 Sicilian (Scheveninger). Round5.

1.e4 c5 2.2f3 d6 3.d4 cxd4 4.2xd4 2f6 5.2c3 a6 6.f4 e6 7.\frac{1}{2}f3 \frac{1}{2}b6 8.2b3 \frac{1}{2}c7 9.g4 b5 10.\(\partial d3 \) \(\partial b7 \) 11.g5 \(\partial fd7 \) 12.\(\partial b3?! \) Going out of book. 12.\(\partial e3 \) (or d2), h4

and 0-0 are known.

12...b4 13.2e2 2c5 14.2xc5 dxc5 15.b3 e5 16.g6?!

Very bold. 16.fxe5 \(\psi \)xe5 17.c3 \(\hat{2} \)c6= 16...fxg6 17.@b2 \d7?!

Why not 17...exf4! 18. ₩e6+ @e7 19. @xg7 @c8∓. Now Virtua comes to life! 18.\u00e4e3!



18...exf4

From here, keep an eye on that passed White e-pawn!

21...₩xe4?? fails to 22.₩xe4+ @xe4 23.\(\mathbb{\math

22. £e6 a5 23. ∮d5!

This would be a wonderful square for the White knight, so Junior has little choice and must remove it.

23...2xd5 24.exd5

The passed pawn, now transferred to the d-file, becomes an even more dangerous weapon.

24...h6?!

A bit weedy, I thought. However 24... \(\text{Qc8} \) 25. \(\text{Hhell } \text{Qxe6} \) 26. dxe6 a4!? only appears to offer very thin practical chances as, after 27. \(\text{Wf3} \), White is winning easily. 25. \(\text{Hhgl} \) \(\text{Ed8} \) 26. \(\text{Exg6} \)

26... \delta d6??

Simply worsens the situation. 26... \(\text{Qxd5} \) was best, but analysis shows that it doesn't last much longer! 27.\(\text{We5} \) \(\text{Ed6} \) 28.\(\text{Exd5} \) \(\text{Eh7} \) 29.\(\text{Exc5} \) \(\text{Ed1} + 30.\text{Pxd1} \) \(\text{Wd6} + 31.\text{Wxd6} \) \(\text{Qxd6} \) 32.\(\text{Ec8} + \text{Pe7} \) 33.\(\text{Qf5} \) \(\text{Qc5} \) 34.\(\text{Ee6} + \text{Pf7} \) 35.\(\text{Ec7} + \text{Pf8} \) 36.\(\text{Qg6} \) \(\text{Pg8} \) 37.\(\text{Ee8} + \text{Qf8} \) 38.\(\text{Qf7} + \text{Ph8} \) 39.\(\text{Exf8} \) \(\text{Exf8} \) 27.\(\text{Qe5} ! \) \(\text{Pd8} \) 28.\(\text{Wxc5} \)

Following 28... #c7 29. #xc7+ \$xc7 30. \$\pm\$h3+- 1-0.

After this, Virtua became a pretty hot favourite to win the Title, and would next be beating Crafty in round 6 to go to 5½/6.

Junior's own 6th. round game was against the long-awaited 'radically different, speculative knowledge-packed' CS Tal, and this is what happened:-

Junior4.6 – CSTal E99 Kings Indian. Round6.

1.එf3 එf6 2.c4 g6 3.එc3 @g7 4.e4 d6 5.d4 0-0 6.@e2 e5 7.0-0 එc6 8.d5 එe7 9.එe1 එd7 10.එd3 f5 11.@d2 එf6 12.f3 f4 13.g3

13.g4 fxg3 14.hxg3 is book, but the pawn going only to g3 confuses CSTal!

13...g5

Played out of book 13...fxg3 would get back to it, as per the note above!

14.\Bb3 fxg3?

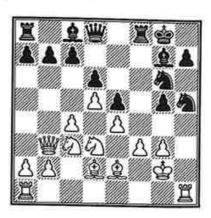
14...2g6 15.c5= 15.hxg3 2h5 16.\$g2!

Inadvisable is 16.\(\text{\textit{L}}\)xg5? \(\text{\text{\text{\text{L}}}}\)xg3 17.\(\text{\text{\text{\text{I}}}}\)f2

16...2g6?!

16...h6!? was probably better.

17.買h1!



17...2xg3

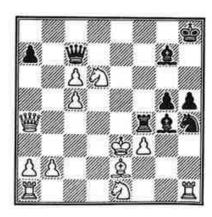
The best try. If 17... £16 18. £xg5! and Black is in all sorts of trouble.

18. £xg3 £h4 19. £e1 h5 20. £e3 c5?!

21.dxc6

White is now able to launch an attack which releases his queen against Black's king.

21...bxc6 22.c5+ d5 23.exd5 e4 24.dxc6+ \$\psi\$h8 25.\Dxe4 \$\psi\$c7+ 26.\psi\$f2 \$\text{Qg4}\$ 27.\$\psi\$a4 \$\text{\text{Bae8}} 28.\Dd6 \$\text{\text{Exe3}}\$ 29.\$\psi\$xe3 \$\text{\text{\text{Exe3}}}\$



Interestingly even at this late stage things can go wrong! If 30.fxg4?? \(\mathbb{Z}\)xa4 31.2d3 \(\psi\)xc6! 32.gxh5 \(\psi\)d5 and Black might be winning!

30.\dog\b5! 30...\dog\b5+ 31.\dog\xf5 \dog\begin{array}{c} \dog\begin{ar

If 31... \(\mathbb{I}\)xf5 32.\(\hat{2}\)d3! wins the game: 35. Exg4!

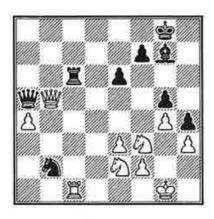
32.₽d2 @xf5 33.\\x\h5+

33. 置xh5+ 由g8 34.c7 置d4+ 35. 包d3+-

Finally some highlights from other games:

Junior4.6 - MCPro7 A34 English, Symmetrical. Round7.

After Junior's 48.\\b\5



49...曾d8 50.包b3!

50. Bb8+! Bh7 51. Dxg5+ Bg6 52. Bc7! Great move! The invasion with mate

threat (\u20fcxf7) finishes MCP7 off, for both this game and its World Title hopes. 52... 4e8

52...\$xg5?? would be totally wrong -Black must not take the knight, or he brings upon himself immediate grief! 53. 世xf7 世xg4+ (53... 世d1+ 54. 中h2 世xg4 55.世xg7+ mates) 54.hxg4+-

53.ปฏิ ชิท7 54.ปั่งท4 ซิซูชี 55.ปฏิ 🖁 🕏 5

56.2e2 2d3

56... wee2?? would be much too greedy 57.2g5 \(\text{g} d1 + 58.\text{g} h2 \(\text{g} e5 + 59.\text{w} xe5 + - \)
57.2f4 \(2xf4 \) 58.\text{w} xf4 \(\text{w} b7 \) 59.h4 \(\text{d} d5 \) 60.h5 \(\text{w} c6 \) 61.g5 \(\text{w} c1 + 62.\text{w} g2 \) \(\text{w} c2 \) 63.g6 \(\text{Threatening mate: } \text{w} xf7 \)

63...fxg6 64.h6 @b2 65.₺g5 ₩c6+ 66.e4

e8 67. e7 ef6 68.f3 e5 1-0

By round 10 Junior ((71/2/9) was a 1/2 point ahead of Virtua (7) - it drew with Ferret (5½), lost to Shredder (6½). The next game therefore represented the final major test.

Shredder - Junior4.6 D18 QGambit, Slav. Round10.

After Shredder's visually threatening 41.**₩a**7

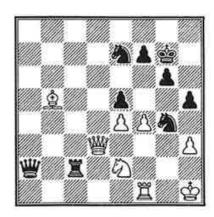


41...¤c2

Counter-attacking its opponent's 7th. rank and also planning 2c8 42.買f1

42. \(\preceq\) xe7? tantalises, but loses due to 42...2f2+! 43.4g2 2d3 44.4xd3 4xd3-+ 42...\u00e4a5 43.\u00e4d4+ e5!

With the killing threat \brace xa6 44. d3 dy 44. db5 db5 db2 46.h3



46...買c1! 47.並g2 買xf1 48.並xf1

If 48.hxg4? Exf4 49.gxh5 gxh5 with a decisive material advantage. 48...£f6!

The first of a series of compelling knight

49.fxe5 \alpha a1+ 50.\alpha g2 \alpha xe5 51.\alpha c3 h4 52.\$h1?! Deg8 53.\$g2 Dh5 54.De2 Dgf6 55.Ձc6 🖞b2 56.Фf3 ຊຶ່g3 57.Ձd4 🖞h2 58.e5 ຊົ່h7 59.ଢ଼e3 Ψxh3 60.ଢ଼d2 Ψg4 61.ଢ଼c2 ຊົ່g5 62.Qd5 h3! 63.e6 fxe6 64.2xe6+ 2xe6 65.⊈xe6 ₩a4+ 66.⊈b3 ₩c6+ 67.⊈c4 h2 68.世d4+ &h7 69.世h4+ &h5 70.世xh2 世xc4+

After 76. \subseteq xf6 + \overline{2}xf6 it's hopeless. 0-1

In the last round, with the TITLE already won, Junior met Fritz, and the latter played an opening that gave the popular commercial program little chance of causing a late upset.

Fritz5 - Junior4.6 [C45 Scotch]. Round11.

1.e4 e5 2.2f3 2c6 3.d4 exd4 4.2xd4 2f6 5.2xc6 bxc6 6.e5 \(\psi e7 \) 7.\(\psi e2 \) 2d5 8.c4 \(\psi a6 \) 9.b3 0-0-0 10.\(\psi b2 \) 2b6 11.\(\psi e2 \) \(\psi e8 \) 12.\(\psi f4 \) g5 13.\(\psi g3 \) \(\psi g7 \)



Can e5 be defended? **14.2d2**

Fritz5 is out of book. If 14.c5 \(\text{ \text{\text{\text{\text{9}}}}\)xe5 \(\text{\text{\text{\text{2}}}}\)xe5 \(\text{\text{\text{\text{2}}}}\)xe5 \(\text{\text{\text{\text{2}}}}\)xe5 \(\text{\text{\text{2}}}\)xe5 \(\text{\text{2}}\)xe5 \(\text{\text{2}}\)xe5 \(\text{\text{2}}\)xe5

Black has a pawn and a strong initiative, through threats along the open e-file. An opening line for White to avoid, it seems, and Junior slowly but surely converted it to the win in due course (66 moves). 0-1

JUNIOR and other NEW PROGRAMS

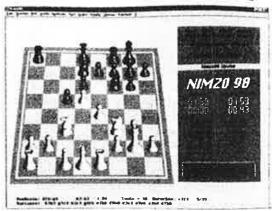
The <u>JUNIOR4.6</u> engine is being launched commercially to <u>work within</u> FRITZ5 (i.e you have to have Fritz5 as well).

It will not run quite as fast in this environment as it did 'on its own' as it will operate under Fritz's 16-bit coding rather than its own 32-bit, which will cost it some 10-15% of speed. But, exactly as does the Hiarcs6 engine, it will take on all of Fritz5's own graphics, features, analysis helps etc., and they are giving it its own opening book! At a probable £49, it will be a big seller.

But how strong will it be? I don't know! My

honest guess is that it might just disappoint those who expect it to challenge right at the very top... despite its clearly deserved WMCC win.

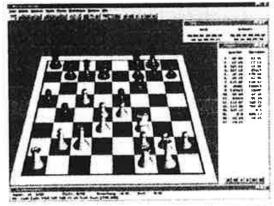
NIMZO98 [Win95 only. CD. £89.95]



By Chrilly Donninger, a re-programming in 32-bit of earlier Nimzo versions for Win95 and the new Pentium processors. 200,000 position opening book. Advertised as tactically strong and aggressive, and claimed to be close to 100 Elo stronger than Nimzo3.5 (SS rating on P/133=2433), though its Aegon and WMCC results suggest that might be optimistic..

VIRTUA CHESS2 gets some good mentions in the WMCC/Junior report, but I have no news yet of the arrival of a new version. However it disappointed with a score of 6/10, running on a Pentium MMX/300, for a 2400 grading at 40/2 in Clichy, Paris in mid-December.

SHREDDER2 [Win95/NT4. CD. £89.95]



By Stefan Meyer-Kahlen. Version1 (SS rating of 2427 on a P/133) won the 1996 WMCC, and the new Shredder2 was 3rd. this time. 32-bit programming on 4CD's which include endgame databases, and claiming improved searching, hash table usage and evaluation functions.

Championship, taking place at the same time. Here 2 games at 60/30; if equal, tie-break games in pairs at 6/5 until winner emerges.		COMPUTER CHESS Tournament, 1997 Sponsored by FSV personal training, Germany.		where possible). Note: Crafty, Comet and Crazy Bishop are freeware; Zarkov is a beta version.
MChess Pro7 0-1 1-0 2-4 =3-5	Crafty			
Crafty	0-1 0-1 =0-2	Comet A75		
ChessMaster 5000 0-1 1/2-1/2 = 1/2-11/2	Comet A75			
Comet A75		½-½ 0-1 =½-1½	Junior4.6 (within Fritz)	
The Crazy Bishop	The Control Disher			
Genius5				
	0-1 1-0 0-2 =1-3	Junior4.6 (within Fritz)		
Junior4.6 (within Fritz) 0-1 1-0 2-0 =3-1 Shredder2	Junior4.6 (within Fritz)		½-½ 1-0 =1½-½	Junior4.6 (within Fritz)
Kallisto Aegon 0-1 0-1 =0-2	Hiarcs6 (within Fritz)			
Hiarcs6 (within Fritz)	½-½-0-1=½-1½	Fritz5		
Tjes 0-1 0-1 =0-2	Fritz5			
		1/2-1/2 1/2-1/2 = 21/2-11/2	Fritz5	
CS_Tal 0-1 0-1 =0-2	Nimzo98			
Nimzo98				
	1/2-1/2 1/2-1/2 U-Z = 1-3	Kenera		
Rebel9		R		
1-0 1-0 =2-0	Rebel9			

NEWS and RESULTS

RESULTS

Frank HOLT has been hard at work as always, through Dec/Jan! Here is a summary of his main scores on optimal settings for SS ratings. Fuller details next time:

Fritz5 6-6 Rebel9 Fritz5 11-9 Hiarcs6 Fritz5 8-4 (!) Genius5

Frank concludes his score-listing, accompanied by games, saying: "Fritz5 is the program to have! What more can I say!".

Gary SEDMAN has 2 PC's... but they're unequally matched, so he plays 'double-round' events to keep things equal and fair.

The computers are an AMD K6/166 and a Pent/120. His results, all at 60/60:

Hiarcs6 P/120 3½-6½ ChessMaster 5000 K6/166 Hiarcs6 K6/166 6-4 ChessMaster 5000 P/120 A match win for CMaster by 10½-9½.

Hiarcs6 P/120 3½-6½ Fritz5 K6/166 Hiarcs6 K6/166 7½-2½ Fritz5 P/120 A match win for Hiarcs6 by 11-9.

Fritz5 P/120 6-4 ChessMaster K6/166 Fritz5 K6/166 6-4 ChessMaster P/120 A match win for Fritz5 by 12-8.

Paul WILLCOX sent me a small sample after buying the Novag SAPPHIRE2 (NB: a small sample is FINE! They are easily added to the results of others and help towards making our ratings as accurate as we can get them). The time control was 60/60 or, in some cases, G/60.

Sapphire2 2-0 Meph Nigel Short
Sapphire2 ½-2½ Meph Berlin 68000
Meph Nigel Short 2½-2½ Meph Berlin 68000
Meph Nigel Short 2-0 Fid Excellence
Meph Nigel Short 2-0 Novag Super VIP

He remarks: "Sapphire2 deals with the Nigel Short fairly easily, but really struggles against the Berlin... yet the Nigel Short gives the Berlin an equal game! A strange clash of styles".

The **DUTCH OPEN** finished in December, and I promised details this time! We'll have to make do with the **leader's board** only, I'm afraid, due to lack of space in a packed Issue!

Time control was G/90:

1	Nimzo98	10/11
2	Cilkchess2	91/2
3=	The King	71/2
	Zarkov	71/2
5=	Arthur	7
	Kallisto2	7

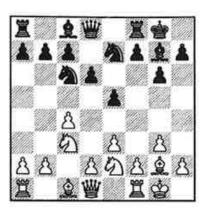
A 'two-horse race' but, as Cilkchess was on a DEC-Alpha 466, I think the honours all go to Nimzo98! I mean, 10/11!

COMING SOON!

WELSER 1998 started in early January and will run for the month... perhaps a little more.

Run, as always, by **Franz Wiesenecker**, it will take place in Austria, where it is aimed to test not only for an overall winner, but also to compare new and old versions: e.g Rebel8+9, Nimzo3.5+98, Hiarcs5+6. Results should be here for SS/75.

Uniquely each game will be played G/120 from one set opening position, with opening books switched off (!). The idea is to test the chess engine alone!



AEGON.... is no more! One of the saddest pieces of news to emerge at the end of 1997 was the fact that there will be no more famous Aegon **Computer v Human** events.

The reason, as you'd probably guess I'm sure, is that it is no longer viable. Financing so many visiting players, GM's and IM's included, with little scope for commercial gain other than a small amount of slightly beneficial advertising, meant it was mostly a lot of hard work and expense for a bunch of hightly committed enthusiasts. Sadly, the rising costs and exhausting effort seem to have taken their usual toll.

Report on a Very Experimental Match with 3-Hirn by Prof. Dr. Ingo Althofer

It was 1985 when I started the experiments with 3-Hirn. The climax was a narrow 3½-4½ match loss against GM Christopher Lutz in October 1995 (see SS/72).

Last year I tried something new with "DoubleFritz+Boss". Then, combining both approaches, I challenged GM Arthur Yusupov to a match at Shuffle chess!

3-HIRN and LIST-3-HIRN

In "3-Hirn" two different chess computers and one human controller are involved. Each of the chess computers produces its move proposal, and the human makes the final choice among these proposals. If both machines want to play the same move, the human is not allowed to outvote them.

In "DoubleComputer+Boss" the human uses only one chess computer. The program is running in its Best-2 mode, i.e not only the best but also the second best move is being computed and displayed. The human has the final choice among these two proposals. (In positions with only one legal move there is of course only one candidate).

In my "DoubleComputer+Boss" experiments I used the program Fritz 4; therefore the name **DoubleFritz+Boss**.

"List-3-Hirn" is a new idea and combines the two approaches of 3-Hirn and "Double-

Computer+Boss".

Two different chess computers are involved and one human chess player, who is the controller again. But both of the chess programs are also running in a <u>Best-k</u> mode, where the number k (for instance k = 1 or 2 or 3 or even larger; k=1 is the traditional mode) is no longer fixed, but is chosen by the controller arbitrarily, deciding how many 'best moves' are to be computed at each move.

The controller can also run the two programs in different modes, for instance the first in 3-best and the other in 2-best mode. In one situation in the match with Yusupov I even let Fritz5 run in 7-best mode - move 5 in game 4, it did not help too much!

From the lists of proposals of both

computers the human makes his final choice for the move to play. In this decision process he does not only take into consideration the naked moves but also the corresponding evaluations and principal lines.

The whole construction is called "List-3-Hirn", because the final choice is made from two "lists" of candidate moves.

In all three settings (3-Hirn, DoubleComputer+Boss, and List-3-Hirn) the human is also organizing the timing (the programs are running in infinite mode, and the controller is permanently inspecting the informations on the displays; he stops in an appropriate moment) and the permanent brain.

In the match with Yusupov I expanded the choices of the controller even further: He was also allowed to switch between different chess programs between the moves.

The K-BEST FEATURE

Currently the following commercial chess programs have a k-best feature: Doctor 1/2, Fritz 3/4/5, and Hiarcs 4/6 (these all being engines for the Fritz 4/5 system), and Hiarcs 4/5/6 as autonomous programs.

Due to personal connections I was also able to use experimental versions Doctor2.5 and Shredder1.5 (an improved version of the 1996 World Micro Computer Chess Champion), which also had k-best modes.

Within the Fritz frame you can switch from one engine to another with only a few mouse clicks.

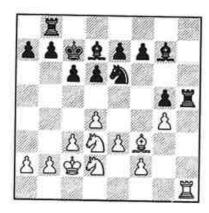
Concerning the other programs things were a bit more complicated, because the current position had to be entered in the "new" program. In the match I used Doctor2.5, Fritz4, Fritz5, Hiarcs6 in the Fritz frame and Hiarcs5 and Shredder1.5.

K-best ADVANTAGES

The advantage of List-3-Hirn over "normal" 3-Hirn becomes clear in positions where both programs prefer the same poormove.

17.gxh5 in game 1 of the Yusupov match was such a situation: the pawn on h5 will

become a weak spot.



Both computers gave the much better Rxh5 as second best choice, and the controller of List-3-Hirn (= me in this case) did have the chance to avoid gxh5 (though I didn't take it on this occasion!).

In general it isn't too often that different chess programs have the same positional and strategical shortsightedness. Incidentally, readers surprised at the strange board position have probably forgotten this is Shuffle chess!

In "Double Fritz+Boss" I sometimes had the impression that both candidates and their principal lines "smelt like Fritz". By the simultaneous use of different programs the danger to end in a pool of too similar candidate moves becomes much smaller. But also in case of candidate lists with the same set of entries it is helpful to see the different evaluations, especially if the controller himself does not understand the position well.

In my DoubleFritz match with GM Timoshchenko there was a strange trend: I found myself with the habit of believing more in the evaluations of Fritz although they were subjective values only from Fritz's point of view. It is easier to avoid such a "gulliblism in machines" if two different evaluations for the same move are given (for instance +0.8 and -0.3: discrepancies of this magnitude are quite normal amongst Fritz and Hiarcs and Shredder).

'SHUFFLE' CHESS

In Shuffle chess the pieces move as in normal chess except for castling. The main difference is in the starting position.

The pawns are stand on their usual places. But the positions of the other pieces on their respective back ranks are determined at random. In this process of

shuffling the following special rules must be obeyed:

- The two bishops of a player have to stand on squares of different colours.
- The king has to start between the two rooks
- The pieces of White and Black are placed symmetrically. (So white queen on al means black queen on a8, and so on).

There exist 960 different starting configurations under these rules. If you want to generate one of them fairly by hand, the following procedure is simple. This is for the white pieces - the black ones are placed in symmetry at the end of the procedure.

Start with White's black squared **bishop**. Number the candidate black squares a1, c1, e1, g1 as 1, 2, 3, 4 and roll the dice. If 5 or 6 occurs, repeat until you get one of the assigned numbers, then put the bishop on the corresponding square.

Do the same for the white squared bishop, numbering its candidate squares b1, d1, f1 and h1 for dice rolls 1, 2, 3 and 4.

After this, 6 candidate squares remain for the **queen**. So you need exactly one single roll of the dice!

Next the first **knight** is placed on one of the 5 candidate squares, and after that the other knight on one of the four remaining squares, using the same dice roll method as for the bishops.

Only 3 squares remain for the **king** and the two **rooks**, and by the R-K-R-rule their places are already fully determined.

Yusupov and I always threw the dice directly before the start of the games, and during my procedure of entering the starting position in the computers Yusupov had some minutes to meditate about the setup.

In fact, Hiarcs and Shredder enable automatic shuffling, but in the match we did it by hand because I wanted to avoid any impression that I had manipulated something to reach certain (secretly prepared) starting positions.

Before the match we agreed that we would also allow a shuffle giving the same starting position in more than one game, but this did not happen. Also the traditional piece ordering would have been allowed.

In Bobby Fischer's version of Shuffle Chess the players are allowed to perform some special castling moves. As current chess computers are not programmed for these rules, castling was completely forbidden to both parties in the match with Yusupov. This prohibition included also those situations if the king and either rook did shuffle to their traditional starting squares.

COMPUTERS at Shuffle Chess!

Several top players have expressed their opinions on the relation between shuffle chess and chess computers:

In June 1996 **Bobby Fischer** said in a press conference in Buenos Aires that computers would be at a considerable disadvantage in FischeRandom Chess. He stated that without access to databases of the millions of opening variations in traditional chess, computers would not really play chess all that well. (FischeRandom Chess means Shuffle Chess with Fischer castling).

During his match against IBM's Deep Blue in May 1997 Garry Kasparov gave an interview to GM Daniel King (on the morning after game 4) and answered on King's question "What about shuffling the pieces on the base-line at random ... Bobby Fischer's idea?"

"Then Deep Blue is dead. It wouldn't be able to develop its pieces normally. The reason why Deep Blue is so successful and other computers are getting better is that they have been able to exploit opening theory. Computers can survive with opening theory. You saw what happened when I played 1.d3 [in game 3 against Deep Bluel]. Deep Blue had a very suspicious position".

These remarks are only partly relevant for the match against Yusupov.

Firstly, we played without castling, so the machines understood at least the legal-

ity status of all moves.

And secondly, in List-3-Hirn a human is involved, and his (my!?) positional and strategic feeling may help to avoid the worst mis-developments. (But see game 4 and the opening phase of game 5 with 4.Bd4 and 5.Ba4 as warning counter examples).

The OPPONENT

Arthur Yusupov was born in 1960 and started with chess as a young child. He was tought in the famous Botvinnik school in Moscow, where IM Mark Dvoretsky was his most influential teacher.

In 1977 he became World Youth Champion, and since the mid-eighties he was among the remaining eight candidates for the challenger of the World Champion in four consecutive cycles.

For me he was an interesting match partner especially because of his great experiences in match play:

■ 1986 5½-3½ against Timman and 6½-7½

against A. Sokolov;

■ 1988/89 3½-1½ against Ehlvest, 5-4 against Spraggett and 31/2-41/2 against Karpov;

■ 1991/92 5-4 against Dolmatov, 5-4 against Ivanchuk and 4-6 against

Timman;

■ **1994** 2½-4½ against Anand. He was also Anand's second in the PCA world championship match in September 1995.

In 1991 Yusupov and his family moved from Russia to Germany, and he has become a German citizen. He has played for their national team already in two chess Olympiads and one European championship. With his club SG Solingen he became German team captain in the season 1996/97. His FIDE Elo rating is 2640 (July 1997), and he is the strongest German player by a wide margin. Arthur Yusupov together with his wife and two daughters is living in Bad Wiessee at the Tegern-See, where he is running a chess school.

Yusupov has some experience with chess computers although he prefers to train without them. The negotiations for the 3-Hirn match were finished before I learned that he would play against Ed Schroder's Rebel on Ischia (in June 1997).

The PROGRAMS: My Views!

Two fast AMD PC's with K6-233MHz processors were used in the match. Each had 64 MB RAM.

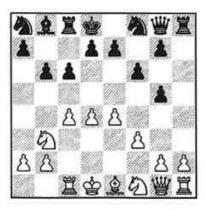
The match of List-3-Hirn versus GM Yusupov was an experimental one in a threefold sense: [1] two different chess

programs were used simultaneously in kbest modes; [2] it was a match in Shuffle Chess; and [3] the controller was allowed to switch between engines during the games.

For me it was a difficult process to become familiar with this last type of challenge.

Before the match I tried to understand strengths and weaknesses of all the engines involved, and here are my opinions:

DOCTOR (an early version of Junior!) has the tamest evaluation function of all. It is tactically just not a giant, but has a surprisingly good understanding of many positional motifs. For List-3-Hirn it was very helpful that during the openings Doctor found some rather constructive solutions for the problem to place the king appropriately - this matter was a key one, because castling was not allowed! Doctor's proposal 7.Rc2 in game 3 is my favorite move of the whole match.



FRITZ4 and 5 are monsters in tactics. I was in fear that they might be too similar to each other, and so used almost only Fritz5 in the match. After the positive experiences with the "double-pack" Fritz4&5 in games 5 and 6 I am now rather convinced that this similarity fear was unbased. However in the final two rounds I used only Fritz5 and Hiarcs 5 with no change of engines. This had mainly match-psychological reasons!

Unfortunately, in the Fritz frame no faillows and fail-highs are shown in the iterative deepening process of the alpha-beta search of the engines. This makes it more difficult for the controller to find the right

timing decisions.

The evaluation function of Fritz 5 is rather asymmetric, i.e in several types of position things are evaluated differently depending on the side from which Fritz 5 looks into the position. This happened for

instance in game 2 after move 20.

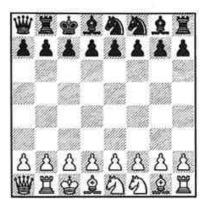
It was also a strange observation (luckily found during sparring games) that Fritz5 gives a very big bonus if the opponent's king is standing in front of his pawns. Probably this setting was made for Blitz games against human players who tend to make errors in such chaotic positions.

Beside Fritz5, HIARCS5 was my main working horse in the match. Despite the quick release of Hiarcs6, in which perpetual check problems had been resolved, I remained a faithful fan and user of Hiarcs5.

Later I also bought the Hiarcs6 engine for the Fritz frame. But unfortunately this version of the engine has a bug in its k-best mode which leads to weak move proposals from time to time. [This has also been reported for Fritz5, so it is a 'Fritz operating system' problem rather than engine faults in either, it seems... Eric].

In the openings Hiarcs had rather often the silly idea to develop its bishops by placing them in front of its pawns. In game 5, in which I confess I acted not very convincingly during the opening phase, 4. Bd4 and Ba4 were the "handiwork" of Hiarcs. With a little bit less luck this parade of the bishops would have resulted in a disaster.

Starting Position: Bdg-Qa-Nef-RKR/bch



1.f4 d5 2.c3?! �d6 3.�d3 �d7 4.�d4?! provokes Black to play a move which he wanted to play in any case. 4...f6 5.@a4?! completes the strange parade of his colleague on d4. White has ill-treated the opening completely.

One of Hiarcs5's strong features is that the operator can switch down from 3-best to 2-best, or 1-best, without interrupting the process of iterative deepening. Currently, in all non-Hiarcs programs (and also in the

Hiarcs engines for Fritz) with k-best mode the iterative search restarts at depth 1 if the parameter k is changed during the search.

We come to the last program used in the match. SHREDDER1.5 is a (noncommercial) improved version of the 1996 World Micro Computer Chess Champion and has also a nicely programed k-best mode, which was not in the original Shredder (the commercial version of April 1997). Shredder is very strong in positions where perpetual checks are involved or have to be avoided, and in the match I used it mainly in situations, where I scented such motifs.

For me it was difficult to become accustomed to Shredder's very speculative evaluations. In sparring sessions before the match we had had situations where all the other programs might show a modest plus between, say, 0.3 and 0.9 pawn units, whereas Shredder was "firmly convinced" with an evaluation about +2.3. Sometimes I especially got the impression that Shredder over-evaluates open diagonals for the bishops and the queen.

Altogether the sparring sessions had shown that each program involved has its favorite types of positions, where its understanding is clearly superior to the other programs, and also others where the reverse is true! In the English horse racing scene this is called "horses for courses".

For the controller this means that he has to tune his feeling for the right horses for the current course. Yet it also plays a role how time-expensive it is to switch from one engine to another. For me it was a nice but also straining experience to perform the sophisticated engine ballets in games 5 and 6! Statistics on the employment rates of the engines will be shown alongside the games.

Some MATCH STATISTICS

The match was played over 8 days, with one game per day. Thinking times were 40 moves in 2 hours, then 20 moves in 1 hour, and finally all remaining moves in 30 minutes. There were no adjourned games. Both parties became short of time in several games, but never too severe or hectic!

Yusupov was paid from my own pocket, in a manner which gave him a good incentive to score as well as he possibly could. During negotiations for the match I had offered

Yusupov to choose 0 or 1 or 2 free days somewhere within the match. He decided for none. Afterwards he agreed that it would have been better to have a free day, and it was my impression at the board that Yusupov was tired in games 7 and 8.

In confirmation of the predictions of Fischer and Kasparov for normal chess programs, 3-Hirn also had problems with the openings in Shuffle Chess. Although I gave the machines a lot of thinking time for the first moves, the resulting positions at the end of the openings were often not edifying. Especially in games 4, 5, and 6 Yusupov achieved clear advantages.

PAWN Aggression

In the 1997 match between Kasparov and Deep Blue2 the aggressive pawn management of Deep Blue with several moves of wing pawns had impressed me (and probably also Kasparov!). In the DB2-GK match such pawn moves occured as follows:-

Game No's of aggressive A moves by DB

- 13, 17, 22, 27, 28, 35
- 23 19, 22, 26
- 32, 34
- 4 11, 13, 24, 26
- 5 11, 23
- 12, 19

In the Shuffle Chess match I tried to look for and practice a similar strategy against Yusupov, and those opportunities were especially at the following positions -

Game No's of aggressive △ moves by L3H

- 2
- 14, 35
- 3 4 9, 15
- 5 6, 7
- 6 4, 16, 17
- 11, 19, 20, 27
- 9, 14, 18, 21

Probably this strategy has been helpful towards achieving the match win.

PSYCHOLOGICAL Aspects

In a chess **match** psychology plays a much larger role than in a single game, as every day you are sitting in front of the same opponent. During the match you become

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aware of many nuances in the other's behavior: if he is tired or disappointed, if he is nervous or perhaps less concentrated one day, how strong his current will to win is.

The perception of this had helped me a lot two years ago in the match with Christopher Lutz, and also against Yusupov this aspect played an important role. Interestingly, in the 1996 match against Genady Timoshchenko I was almost unable to collect any psychological signals from the GM. Timoshchenko was sitting behind the board almost like a stone ...

For the human opponent of a "normal" chess computer it is of course impossible to interpret the machine psychologically. In the play against a man-machine combination this may no longer to be true. But in my role as the controller I always try to look as neutral and un-involved as possible, even though simultaneously it is my intention to understand and interpret the psychological patterns of the opponent!

In the match with Yusupov it was a great help for me to have a chess second for discussions and advice between the games:

Rick Burmeister is the strongest player of Jena town with a national rating of 2260 and a FIDE Elo rating of 2355 (July 1997). Besides his chess skill he has also a very subtle understanding of psychology.

It was his advice to bring Yusupov under motivational pressure by strategic drawing offers in positions where 3-Hirn was slightly worse. I made such offers in game 2 at move 30, in game 5 at move 40, and in game 6 at move 39. In all three cases Yusupov declined, but was unable to win the positions afterwards. Perhaps these failures helped to wear him down, which I think happened in the two final rounds.

However my draw offer in game 8 (at a match score of 4-3 for 3-Hirn) before my move 19 had another background.

Here before the game Rick Burmeister had given me the hint to eventually offer a draw in a slightly better position. This would confront Yusupov's inner pigdog (?!, "Schweinehund" in German) with a difficult decision: acceptance would bring an end to his struggle, but also give the match win to 3-Hirn.

The position at 19. ... Nc7 was evaluated as slightly favourable for 3-Hirn by both Hiarcs and Fritz.

A GM's THOUGHT PATTERNS

Sometimes several move candidates of equivalent quality were proposed, and my choice was for that one which led to the most strange position. For instance, in game 7 the move 24. Rb1was less natural than the admissible alternative Rc1. By such decisions I wanted to cause positions with which Yusupov was less familiar, to create uncertainty within the GM.

Typically such new thinking costs more time and more energy to the human opponent and, interestingly, Yusupov told me after the match that he had found big problems to predict the moves of 3-Hirn.

I had David Bronstein's bon-motto in my mind "Don't solve problems, create them!" A similar strategy seems to have been applied successfully by the Deep Blue team in the 97 match against Kasparov.

Compared with traditional chess it played an important fact that the match was in Shuffle Chess.

In the late 1930's the investigations of the Dutch psychologist **de Groot** (special area: question of cognition) showed that chess masters have collected in their minds ten thousands of patterns for typical positions, but that these patterns were not too helpful in the recognition of randomly generated board configurations.

Probably the shuffling of the pieces on the back ranks for the starting position itself was already sufficient to make the resulting configurations on the board less familiar for human players.

For instance, again in game 7, Yusupov had some problems due to the fact that the starting position was almost identical to the one in traditional chess, with the important difference that the kings were on the d- and the queens on the e-file. In several of his computations during the early phase of the game Yusupov admitted he had mixed up some patterns, especially for the pawns.

To be continued in SS/75:

- Some Anecdotes
- Applications of the 3-Hirn principle outside of chess
- Further comments on Shuffle chess and castling
- Variants of List-3-Hirn including Plans for the Future
- Games and Analysis

KOMPUTER KORNER'S Korrespondence Kup

The PRELIMINARIES!

During 1997 the programmer of DIEP, namely Holland's Vincent Diepeveen, 'suggested' that its knowledge and search style would make it the most powerful computer force for Correspondence analysis. This possibility was quickly challenged by various programmers, especially the commercial ones (!) and their supporters.

Alan Tomalty (also known on the Internet rec.games.chess.computer pages as Komputer Korner), and never one to stand in the shadows when controversy rears its cheery head - or at any other time for that matter :-) - suggested a Tournament be held on very long time controls, to simulate the programs' work value for supporting a Correspondence player.

'THINKING' time!

The problem, rather obviously, is the immense amount of computer time such a competition requires - few folk can afford to have a PC tied up for many hours a day for a series of games which are each likely to take months rather than weeks to complete.

This fact was seen in the REBEL-CRAFTY and HIARCS-CRAFTY matches, which both ground to their respective halts

long before completion.

Nevertheless Alan managed to attract a small entry list - each with their particular PC set-up, presenting the immediate challenge of assessing the varying PC power of the participants and drawing up a different time control for every program to be equal to one hour of thinking per move on a Pentium Pro/200.

Thus the CRAFTY program on a PPro/200 got the hour, but the version run by a different operator on his 486/100 got 5hrs 20mins.

DIEP was represented by a 486/66 in all games and got 8hrs per move.

MACHCESS on a PowerMac 6100/66

got 4hrs 10mins.

REBEL8, with 3 different operators

and their PC set-ups, and CM5000 were dealt with similarly.

In the event there was a 3-way tie for first place... and that after over 6 months of hard work by, in particular, the organisers dealing with the usual Internet complaints by non-participants about one thing or another. Chris Whittington, who was appointed as Tournament director, also had some interesting decisions to make, especially regarding the termination of games, some of which looked as if they might last forever.

DIEP Games

DIEP's amateur status means, of course, that almost no-one has it, so finding a group of operators isn't easy! In the Event a close friend of Vincent Diepeveen's agreed to do it all!

And although DIEP failed to fully liveup to its programmer's hopes, said operator Ralph Hellmig volunteered some analysis of two of its games, so: Notes by Ralph, with some comments (in italics), based on WMCC Champion Junior's analysis and evaluations from within Fritz5, by Eric.

<u>Diep – MacChess</u> [D30] KKup, 1997

1.d4 d5 2.ହା୍ରି ହାର୍ଟ 3.c4 e6 4.e3 c5 5.ହା୍ର ହାର୍ଥ

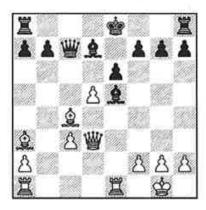
A non-Book move I am sure, which throws Diep also out of Book.
6.\(\hat{Q}\)d3 \(\hat{D}\)xc3 7.bxc3 dxc4 8.\(\hat{Q}\)xc4 cxd4
9.exd4

This move looks a bit strange, and cxd4 seems more natural. Vincent's comment about this move to me was, "If I cannot stop later versions of Diep from playing exd4 in this position, I will stop working on it".

Luckily the later Diep, which played at Aegon, plays cxd4.
9... ₩c7 10. ₩d3 ②c6 11.0-0 ②d6 12. ℤe1 ℚd7

13.d5

Diep's score is +1.06 here, whilst WMCC Champion Junior shows +0.42. 13...2e5 14.2xe5 2xe5 15.2a3



MacChess is already in big trouble. There seems to be no really safe place for the Black king anymore.

15...f6?

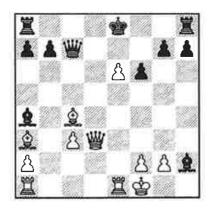
This accelerates the loss, the Black king will not be able to escape without a deciding shedding of material.

Junior says 15... $\mathfrak{D}xh2+16.$ $\mathfrak{D}h1$ $\mathfrak{D}f4$ 17. $\mathfrak{D}d4$ f6 18. d6, and shows +0.83.

16.dxe6

+0.83 says Junior after a couple of mins... but Diep showed +2.96 (after a few hours, of course!)

16...@xh2+ 17.\dot f1 @a4



18.\(\mathbb{I}\)ad1

This looks really nice, to catch the spectator's eye.

Junior chooses $18. \oplus b5 + showing + 2.62$

18...**⊕e**5

Note that 18...\(\partial\)xd1?? 19.\(\partial\)b5+ m/3! 19.**⊉b5**+

Diep score +7.30!

19...@xb5 20.\\xb5+\\cdot\cdot\cdot\cdot\cdot\delta+

With this move MacChess announced m/9 against itself. There is a way to survive a few moves more, but the reason it played this move knowing it would lose was that the mate 'fail low' occured only a few minutes before its time allowance for the move

was up. It immediately started the search for an improvement, but was unable to complete the analysis in time, forcing the operator to post the mate confession! 24.\(\mathbb{\text{y}}\)xd6

Diep also announced the mate here. 24...\$f7 25.\(\mathbb{Z}\)xe5 \(\mathbb{Z}\)ae8 26.\(\mathbb{U}\)d7+ \(\mathbb{D}\)g6 27. \(\mathbb{Z}\)xe8 \(\mathbb{Z}\)xe8 \(\mathbb{Z}\)xe8 + \(\mathbb{D}\)f5 29.\(\mathbb{D}\)c1 \(\mathbb{D}\)g4 30.f3+ &h4 31.\\alpha4+ \dig 3 32.\\alphaf4# 1-0

An EXCITING FINISH

As Ralph admits, "As I was running all four DIEP games on one machine, and with the slowest hardware at that, namely a 486/66, 8 hours per move and 2 moves a day, the DIEP games proceeded rather slowly and were the last ones to finish".

So, after 5 months, the Tournament Table looked like this, and there was still

one game outstanding!

CRAFTY11.15 CM5000 REBEL8 **DIEP1.57** MACCHESS3

And here it is - Crafty needs 'only' a draw to win the Tournament and, in fact, has two

clear program engine advantages:

1] Diep used an earlier version of Crafty's own opening book (Crafty versions can be downloaded from the Internet, for conversion and use, so Vincent was using one of its books for this Tournament).

[2] Crafty has EndGame Table Bases.

Diep - Crafty **C81** KKup, 1997

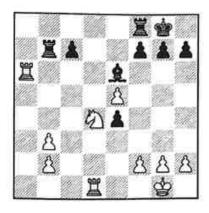
1.e4 e5 2.2f3 2c6 3.2b5 a6 4.2a4 2f6 5.0–0 ②xe4 6.d4 b5 7.Ձb3 d5 8.dxe5 Ձe6 9.₩e2 �e7 10.≌d1 0–0 11.c4 bxc4 12.�xc4 16.**2bd2 ⊎a7 17.⊎xa7 ≅xa7**

As we've noted above, Diep was using an earlier version of Crafty's book - and this is a very well known line - so it is not surprising they have both safely navigated their way to here. However Diep does now leave its version of the book - though it finds a book move! - whereas Crafty's later edition stays in just a touch longer.

18.2xe4 2xb3 19.axb3 dxe4

Both are now out of Book, and jump almost straight into the endgame where Crafty's EGTB should have their say!

20. 2d4 罩b7 21. 罩xa6



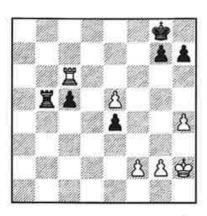
21...c5?

Junior proposes $21... \oplus xb3!$? with an evaluation of +0.03.

22.2xe6 fxe6 23.\(\mathbb{Z}\)xe6 \(\mathbb{Z}\)xb3

Diep has somehow found itself one pawn ahead almost directly from leaving the opening book, and its score is +0.58. (Actually b2 is hardly secure and is un-likely to survive, but Diep has other advantages, thus the evaluation – Eric).

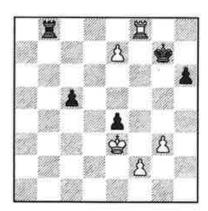
24. Ed2 Efb8 25. Ec6 Exb2 26. Exb2 Exb2 27. h4 Eb1+ 28. \$\diphh\$ h2 \$\diphh\$ 5



Crafty now has 2 weak pawns in this endgame, and they are a big problem which mean his rook must stay very much on the defensive to provide the necessary protection.

In the Internet's rgcc there was a lot of speculation now whether Crafty (using EGTB) could draw this position. Most thought it would – or perhaps they believed Diep wouldn't be able to win it! – but we showed +1.42 so I was not ready to agree! 29.\$\psig 3 \$\psi f 7 30.\$\psi f 4 \$\mathref{\pm} b 2 31.\$\psi e 3 \$\mathref{\mathref{\pm}} c 2 32.\$\mathref{\mathref{\pm}} c 4 33.\$\mathref{\mathref{\mathref{\pm}} f 6 }\mathref{\m

Diep's score is now +1.12, and the majority view was that it 'cannot' win this and the game should be declared a draw (leaving Crafty as the Tournament winner). Some felt the game should continue yet for a while, Bob Hyatt (Crafty's man!) was willing... and gladly Tournament director Chris Whittington agreed! 35.g3 &g7 36.\(\text{Eh4!}\) \(\text{Eb4 37.\text{Ef4 h6 38.e6!}}\) \(\text{Eb6 39.e7}\) \(\text{Eb8 40.\text{Ef8}}\)



And Bob Hyatt actually resigned for Crafty here as, through its EGTB, it had found a mate in 28!?

Some questionned whether Diep could find this, or 'would it go wrong some-where... one false move etc etc'... and true we showed just +1.73 playing move 40. But, after 40... Exf8 41.exf8 #+ \$\psi\$xf8 42.\$\psi\$xe4 \$\psi\$g7 an hour on 43.f3 and we were now reading +8.00, so would have won in due course without Bob's generosity! 1-0

KORR Fina		NDEN urna				
CM5000	X	0	1/2	1	1	=21/2
CRAFTY11.15	1	X	1/2	0	1	=21/2
REBEL8	1/2	1/2	X	1	1/2	=21/2
DIEP1.57	0	1	0	X	1	=2
MACCHESS3	0	0	1/2	0	X	=1/2

In closing, I think congratulations, even medals, are due to Alan Tomalty, Chris Whittington and all of the operators for their persistence and dogged determination to see this event right through.

Even more so because, as I write, I hear that the Korrespondence Kup, 1998 is due to start in mid-late January! I believe there will be one or two more entries (can't have too many unless there's far more operators for each program, or it'd take years!), but it may include Fritz5 and Hiarcs6! Should be good, and I'll bring you up-to-date in SS75. Maybe we can follow the best games?!

The new REBEL9 REVIEW and TOURNAMENT SUCCESS plus GAMES

REBEL9 came out last November, with programmer Ed Schroder's forecast that the new chess engine should be at least 30 Elo better than its predecessor Rebel8, based on

their computer-computer testing.

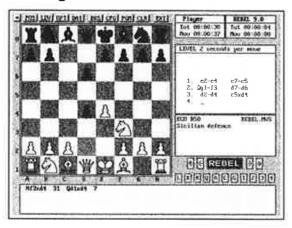
He even expected a little more due to Jeroen Noomen's new opening book, complete with a "genius book learning system". Another important improvement was the extending of the maximum ply depth from 30 to 60 plies, important due to ever increasing superfast processor speeds!

Features

Rebel9 comes on CD ROM, with a BONUS CD which contains various utilities, games and openings collections, test sets, boot-up ideas etc. all collected by SchroderBV over recent years.

The main CD contains **Rebel9** (of course) plus **Rebel7+8+Decade**, and it is possible to play these against each other with the built-in **autoplayer** - which means they must be <u>sure</u> Rebel9 is the strongest, if you think about it!

The various opening books which come with Rebel9 and the bonus CDcan all be analysed at the user's preferred time control by the program, and results written back to the book - though I am sure this has already been done by the team, and on their own very fast machines! If you put BookInfo =ON you can see the Rebel9 scores for each move... e.g see screenshot1.



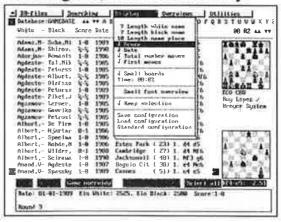
All the new Book Features will offer exciting possibilities for users wishing to study

and analyse specific openings.

And whilst on the subject of openings, the learning system is based on the same idea used in Hiarcs (Mark Uniacke and I actually shared our ideas with Ed Schroder, so you see there are some friendships in the midst of a generally seriously competitive business!). The learning means that, just as humans do, Rebel will avoid openings where it loses too much, and try to repeat openings where it scores well. Over a period of time Rebel9 will build its own favourite book against a user based on the history of its games. This feature can be switched off, or thedefault book reselected.

Whilst you're looking at screenshot1, note the 'hot buttons' just under the badge. These give quick access to Database, Overview, New Game, Save Game and other features... but can be customised and changed to the functions a user wants available quickly most often.

There is a complete new database environment and layout, which is simpler to use yet offers greater options for games, players, material and position searching (see screenshot2 for an example). Everything can be customised in the layout. Also notice in our screenshot the two small boards: the upper shows an opening I've chosen, with ECO code and description, and the lower shows the final position and Rebel9 eval. of a selected game, done automatically.



Game overview shows the game in 15 small boards - a left mouse click on any board goes to that position in a Rebel9 main screen, a right click gets Rebel9

analysis of that position, and a second right click gets its analysis of the actual move played!... clever stuff, and an excellent way to trace the critical moments in a game.

As a final feature-comment, the **Manual** is now **Online**, and can be read complete or searched from within Rebel9. The only documentation you get is for installation, set-up and trouble-shooting helps.

Games Selection

For the REBEL9 games, we are turning to a couple it played in the recent SAMANEL Tournament, held in the Dominican Repub-

lic in late November 1997.

The time control was 40/2 with G/60 finish, and three Computer programs played. The final result was a triumph for REBEL9 which, by beating Hiarcs6 in their private encounter, won handsomely. Hiarcs6 also did extremely well, after playing slightly tougher opposition.

• 1 10/11 Rebel9
• 2= 8½ Hiarcs6, Nelson Pinal (IM) and Manuel
Dominguez
• 5= 8
Gustav Hermandez (IM), Fernando Cabrera,
ChessMaster5000, Luis Arzeno and Salvador

<u>De Los Santos – Rebel9 PM/225</u> [D02]Dominican Rep 40/2 (round 2), 1997

1.d4 **½**f6 2.g3 e6 3.**½**g2 d5 4.**½**f3 **½**e7 5.0−0 0−0 6.b3 c5

New to me! 6...c6, a5 and **2bd7** are known here.

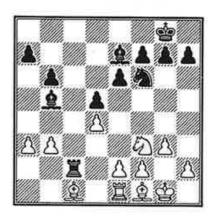
7.c3 b6 8.\(\text{\text{\text{9}}}\) \(\text{\text{2}}\) \(\text{c6 9.}\(\text{\text{\text{2}}}\) \(\text{\text{2}}\) \(\text{2}\) \(\t

Black gets strong play on the open c-file 12... \(\mathbb{Z}\)c7 13.\(\mathbb{Z}\)c2 \(\mathbb{Z}\)b8 14.\(\mathre{D}\)e5 \(\mathre{D}\)b7 15.\(\mathre{D}\)df3 \(\mathre{G}\)fc8 16.\(\mathre{D}\)xc6 \(\mathre{D}\)xc6



17.a3

Covers b4, but better might have been 17. 學d3 ②b4 18. 罩ed1 a6 19. 學xa6 罩a7= 17... ②b5 18. 學b1 罩xc1 19. 愛xc1 學c7 20. 全f1 學c2 21. 學xc2 罩xc2



22.e3?

22. ⊕g5!? was worth consideraing as

22... (2xa3 23. Hal looks equal

22...@xf1 23.\\xif1 \De4 24.b4?!

24.a4 is probably better, even though 24... ②xf2 25. 亞xf2 亞xc1+ 26. 亞f1 亞c3!—+ 24... ②xf2

Not 27... \(\mathbb{Z}\)xa3 28. \(\mathbb{Z}\)xf7 \(\mathbb{Z}\)xb4 29. \(\mathbb{Z}\)b7 with some counterplay

28.2d7 \(\mathbb{Z}\)xe3 \(\mathbb{Z}\)9.\(\mathbb{Z}\)c2 \(\mathbb{Z}\)xa3 30.\(\mathbb{Z}\)c8+

30.b5 might be better, but wont save the game, e.g 30... \(\text{\mathbb{H}}a5! \) 31.\(\text{\mathbb{H}}c7 \) \(\text{\mathbb{Q}}d6 \) 32.\(\text{\mathbb{H}}c6 \) \(\text{\mathbb{H}}f7! \) and if 33.\(\text{\mathbb{H}}xd6 \) \(\text{\mathbb{H}}e7-+ \)

30...∳f7 31.\(\mathbb{I}\)a8

31. \Box c7 doesn't improve anything 31... \bigcirc d6 32. \Box b7 \bigcirc g6—+ (32... \bigcirc xb4?! 33. \bigcirc c5+ \bigcirc c6+ \bigcirc c8 34. \Box b8+ \bigcirc c6+ \bigcirc c6+ \bigcirc c8 37. \Box xg7—+) 31... \bigcirc xb4 and White resigned as 32. \Box b8 \bigcirc d6 33. \Box b7 \bigcirc g6—+ 0–1

Rebel9 PM225 - Mateo, R [E00]40/2 Dominican Rep (round 9), 1997

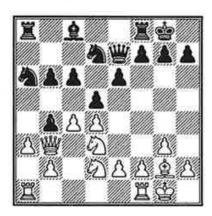
1.d4 ₺f6 2.c4 e6 3.g3 £b4+ 4.£d2 a5 5.£g2 0-0 6.₺f3 d5 7.£xb4

This is Rebel's choice as 6...d5 ended its book (6...d6 is there). Here \(\psi c2\) or \(\psi b3\) is still theory.

9...b6 10.de5 dfd7?!

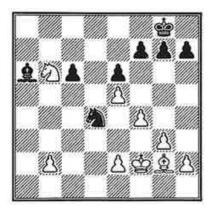
A slightly strange, passive choice. I prefer 10...c5! 11.e3 \@b7=. From here, Mateo makes no blunders and yet drifts downhill

as Rebel takes over the game. 11.2d3 2a6 12.4b3 4e7 13.a3



13...bxa3

Trying to avoid the exchanges with 13... \$\psi f6 14.e3 \mathread{



25...c5

Best! 25...@xe2 26.Фe3!; 25...@xe2? 26.@f1!

26.**2**d7 c4 27.**4**e3 **2**b3 28.**4**c6 h6?! 29.**2**b8 **4**c8

29... ②a5 was better, though 30. ⊕g2 ⊕c8 31. ⊕d4+=

30.Ձb5! and Mateo resigned, perhaps a little prematurely, though after 30...₺a5 31.₺d7! and White still has the good bishop and a material advantage! 1–0

The name *Rebel* has promised <u>strength</u> for the past few years, and it looks from these and our first computer-computer games as if Rebel9 will further that reputation. When the first results came in from Sweden they, like my forecast in SS73, had it <u>just</u> behind Hiarcs6, but it's going to be very close between them for the **number 1** spot. At £89.95 on CD, it has to be a good buy!

TOURNAMENT NEWS

French CPU Chess Association
BLITZ Championship

[All machines on PentiumPro/266]. There was an initial FIVE ROUND Swiss Event, followed by KNOCK-OUT FINALS.

Pos Program	<u>Score</u>	<u>EloA</u>	<u>EloB</u>	<u>%</u>
1 Fritz5	8/9	2495	2758	89
2= Rebel9	6/9	2520	2535	67
Fritz3.6	6/9	2460	2523	67
Fritz4.1	6/9	2465	2455	67
5= Genius3	51/2/9	2465	2535	61
MChessPro6	51/2/9	2505	2484	61
Rebel6	51/2/9	2450	2533	61
Fritz2	51/2/9	2295	2492	61
Fritz3.5	51/2/9	2445	2392	61
10= Genius4	5/9		2428	
Gromit Chess	5/8		2336	
12 Virtual Chess	41/2/9		2301	
13= Hiarcs4	4/9			
Genius5	4/8			
Fritz1	4/8	THE RESERVE OF THE PERSON NAMED IN	2250	
16= MChessPro5	31/2/8			
Siberian	31/2/7		2244	
18= Crafty	21/2/7			
Power Chess	21/2/7		2193	
GNU4	21/2/7		2030	1000000
Comet	21/2/6		2310	
Meph Milano	21/1/6			
23 WinChess	2/6		2096	
24 Chenard	11/2/6		2019	
25= KChess	COLUMN TO THE RESERVE OF THE PARTY OF THE PA		1980	ALCOHOL: U
Arasan	1/5		1878	
Dragon	1/5		1810	The same
28 Pax	0/5	ZUUU	1249	0

The 'Elo' figures:-

 Col.A is a mixture of official + estimated Elo ratings, as used by the French and based on the Swedish rating list.

 ColB represents performance Elo figures for this Tournament, based on the ColA grades.

Equal score tie-splits ORDERING in the final Tournament listing is based on:-

- 1. The Round reached by the program,
- 2. Then the achieved Tournament Eloperformance figures.,

I have shown a final column of achieved percentage scores. This, with the Tournament Elo grading, may give a more accurate ordering/assessment of the result.

TEST your COMPUTER 2: RESULTS A SET of TRICKY MIDDLE-END GAME POSITIONS!

INTRODUCTION

The 'standard' type of test seems to follow the idea of using positions in which there is only one correct move (i.e it wins when all else draws, or it draws when all else loses). The test is thus "How soon can your program find it?"

These positions are different! Usually there are various possibilities which are matters of judgement, initiative, or perhaps a question of positional understanding or correct move order.

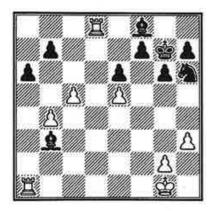
Thus scoring is applied according to whether the move which would be chosen by a Computer in a game is considered to be good, bad or just plain ugly!

TEST SET 2!

This time our set contained a series of *late* middlegame/early endgame positions. Most of them concerned finding the best way to create, or take advantage of, a passed pawn and win. In some of them it is not too clear who is even winning!

I recommended a maximum of 10 minutes be allowed on each of these position - sufficient to judge what is the very best a Computer would be likely to play under typical Tournament conditions.

Position 1: White to play



- Ξ xa6=10. Genius2/P+4/P, Fritz4/P, Chessica/P
- \(\mathbb{I}\)b8=8.
- g4=5. CMach King2, Rebel7/P+8/P, Fritz1/P Risc2500, MephMontreux, CMaster4000/P+5000/P,

- SuperEnterprise, TascR30-1995, GK2000, MephRisc2 = \(\mathbb{Z}d7=5\). Genius5/P, MCPro5/P+6/P, Hiarcs4/P+6/P, MephBerlin+BerlinPro, Hiarcs2.1/4, Rexchess/P,
- Socrates3/P, CMaster3000/P, TascR30-1993, FidDes2265, CCSystem/486

 Others=0. C/Mach Gideon, Fritz2/P+5/P, MephAcademy, FidMach2C, NovForteA, SciSuperstar, Spectrum2, ColossusX/P, Woodpusher/PP, MephLondon, GK+TC2100, MephistoMM4, MephistoMM6, Sargon5/P, NovDiamond, NovagSuperVIP, CCSystem/P

It was a tricky one to start with, a fascinating position. Indeed, is our top-rated move winning?

In the game Van der Wiel-Ljubojevic 31.4×a6 2e7!? (is 31...b×a6 the acid test, then 32.c6 2d5 33. 2xd5, or 32... 2f5 33.c7 2e7 34. 2e8) **32. 2e8!** 2g5? (32... 2xc5+! may still draw!? or what about 32...bxa6 33.4×e7, as 33.c6? 2a4!) 33.447 415 34.罩b8!

Position 2: White to play



- □d3=10. MephAcademy, MephistoMM4
 □e1=7. CMach King, CMach Gideon, Risc2500,
 CMaster4000/P+5000/P, SuperEnterprise, FidMach2C,
 NovForteA, SciSuperstar, Spectrum2, Chessica/P,
 ColossusX/P, MephMontreux, MephBerlin+BerlinPro,
 Hiarcs2.1/4, FidDes2265, Woodpusher/PP,
 TascR30-1993+1995, MephLondon, GK2000,
 GK+TC2100, MephRisc2, MephMM6, Genius2/P GK+TC2100, MephRisc2, MephMM6, Genius2/P, Rexchess/P, Socrates3/P, Sargon5/P,
 CMaster3000/P, NovDiamond, NovagSuperVIP,
 CCSystem/486+P

 # f4=5. Rebel7/P+8/P, MCPro5/P+6/P,
- Fritz1/P+2/P+5/P, Hiarcs4/P+6/P
- **■** 🖺 b1=3.
- Others=0.

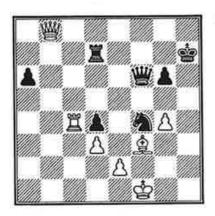
It was an interesting choice about the best way to either [1] exploit White's strong passed pawn, or [2] stop Black's!
In Yusupov-Sokolov White played

35. 2d3 and won after h6 (not 35...e4? 36.罩×d4!) **36.罩f3 罩c8 37.彎f8+**.

As the computers almost all went for 35.\(\mathbb{E}\)e1 we must ask "what next?": [1] 35...\(\hat{h6}\) (best) 36.\(\mathbb{E}\)xe5 \(\mathbb{E}\)e8 37.\(\mathbb{E}\)d5(or &f1 or &g2) 響×e7 38. 響×e7 □×e7 wont be so easy!

[2] 35...d3?! 36.基×e5 d2? 37.豐×g8+!! [3] 35...豐b5 36.豐f5 d3 37.基×e5 wins.

Position 3: Black to play



■ 宣f7=10. MCPro5/P, Fritz1/P+4/P+5/P Hiarcs4/P+6/P, MephAcademy, FidMach2C, NovForteA, Chessica/P, MephMontreux, Woodpusher/PP, Rexchess/P, Socrates3/P, Sargon5/P, CMaster3000/P, NovagSuperVIP

© 267=9. MCPro6/P, FidDes2265

■ ₩d6=7. CMach Gideon, Rebel7/P+8/P, MephRisc2, MephistoMM4

■ £)d5=5. CMach King, Fritz2/P, Genius2/P+4/P+5/P, Risc2500, TascR30-1993+1995, MephMM6 CMaster4000/P+5000/P, Spectrum2, ColossusX/P, MephBerlin+BerlinPro, Hiarcs2.1/4, MephLondon, GK+TC2100, CCSystem/486+P a5=3. GK2000, NovDiamond

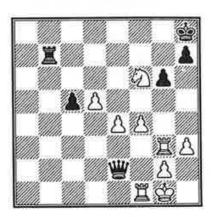
- **■** 2e6=3.
- **■** ②xe2=1.

• Others=0.

The number of choices suggested this was a difficult one - opinions even differ about who is winning! - and Black did lose in the actual game after 39... ②×d3? 40. 響h2+ \$g7 41.g5 (41.\(\mathbb{L}\)c8! certainly wins).

Suba's analysis went 39... Ef7! 40.買c8 曾e7 41.買e8 曾c5, aiming for perpetual check.

Position 4: White to play



d6=10. CMach King, MephMontreux, TascR30-1995, GK2000, Sargon5/P, NovDiamond
 e5=8. CMach Gideon, Rebel8/P, Risc2500, CMaster4000/P, MephAcademy, NovForteA, Chessica/P, Hiarcs2.1/4, Woodpusher/PP, MephRisc2, Rexchess/P, MephistoMM4, TascR30-1993
 f5=5. Genius2/P+4/P+5/P, Rebel7/P, MCPro5/P+6/P, Fritz2/P+4/P+5/P, Hiarcs4/P+6/P, CMaster5000/P, SuperEnterprise, FidMach2C, SciSuperstar, Spectrum2, ColossusX/P, MephBerlin+Berlin-Pro, MephLondon, Socrates3/P, CMaster3000/P, NovagSuperVIP, CCSystem/486+P
 \mathbb{H}a1=4. GK+TC2100, MephMM6, FidDes2265
 Others=0. Fritz1/P

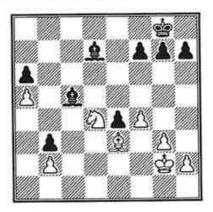
Others=0. Fritz1/P

Correct timing and pushing the right pawn decides if White will get the win.

In the actual game Browne lost playing 39.f5?! when g5! 40.h4 (not 40.\alpha ×g5? 豐e3+) c4! 41.罩c1?? and Black won with 豐b2 42.萬gc3 豐b6+.

However 39.e5 should win, and 39.d6 is probably even better, then either [1] 39...c4 40.d7 followed by e5, or [2] 39... 響d2 40.e5 c4 41.d7, or finally [3 39... 空g7 (the best defence) 40.d7 置b8 41.e5 c4.

Position 5: Black to play



■ **£g4=10. GK2000**

• \(\phi e 6 = 9\). \(\text{Genius} 2/P + 4/P + 5/P\), \(\text{MCPro6/P}\), Hiarcs4/P+6/P, MephBerlin+BerlinPro, Socrates3/P, NovagSuperVIP, CCSystem/P

• 2a4=8. CMach King, MCPro5/P, Fritz1/P+4/P+5/P,

MephLondon CMaster4000/P+5000/P, MephAcademy, SciSuperstar, Higrcs2.1/4, TascR30-1995, GK+TC2100, MephRisc2, MephMM6, Rexchess/P, MephistoMM4, NovDiamond, CCSystem/486

■ @a3=5.

 g6=1. Fritz2/P, FidMach2C, NovForteA, Meph-Montreux, Woodpusher/PP, Sargon5/P, TascR30-1993, FidDes2265

■ \(\Omega\)xd4=1. CMach Gideon, Rebel7/P+8/P, SuperEnter-

prise, Spectrum2

 Others=0. Risc2500, Chessica/P, ColossusX/P, CMaster3000/P

A very tricky one and there might be disagreements, even when you've seen how 'Black wins'! Bryson's own analysis from his Correspondence game went 38... 2 e6! 39.\$f2 (now 39.ᡚ×e6!? ≜×e3 40.ᡚc7 is met by \(\ell_c5!\) 41. \(\Omega \times a6 \) \(\ell_a3!\) winning according to Bryson; but Flear on producing this same analysis thought it a draw!... thus I've gone for 9 points) 2d5 40.0f5 2b4 41.2d4 g6 42.0h6+ 2f8 43.0g4 f5 44. 2f6 &c6 45. 0×h7+ \$e7 46. 2g5 \$d6. Black won the a5 pawn and broke through later with a3 to win.

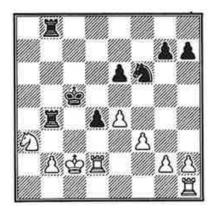
lowed by &e3 and takes the e-pawn.

If 38... 2g4 39. 2f2 2d1, and it is not easy to see White's best defence, so a not-totally-convincing top marks.

The point for &xd4 was a generous one wasn't it, for Computers which don't know about drawn opp-coloured bishop endings!

Position 6: White to play

I reckoned the next one might be too easy, and the results almost show I was right!



■ \(\mathbb{Z}c1=10\). CMach King, CMach Gideon,
Genius2/P+4/P+5/P, Rebel7/P+8/P, MCPro5/P+6/P,
Fritz1/P+2/P+4/P+5/P, Hiarcs4/P, Risc2500,
MephAcademy, CMaster4000/P+5000/P, FidMach2C, NovForteA, SciSuperstar, Chessica/P, ColossusX/P, MephMontreux, MephBerlin+BerlinPro, Higrcs2.1/4. FidDes2265, Woodpusher/PP, TascR30-1993+1995, MephLondon, GK2000, GK+TC2100, MephRisc2, MephMM6, Rexchess/P, MephistoMM4, Socrates3/P, Sargon5/P, CMaster3000/P, NovDiamond, NovagSu-

\$\Pdot{\text{d}}\$d3=7. Hiarcs6/P (!?!?), CCSystem/486+P

■ 🖺b1=3.

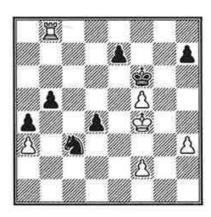
■ Фc1=3. Spectrum2

■ \$\dot{b}\$1=3. SuperEnterprise

Others=0.

Analysis isn't really needed, but: **26.宣c1! e5!** (...**罩**×b2+?? 27.**\$\display\$** 27.**\$\display\$** 27.**\$\display\$** 43+**\$\display\$** 26. 28.41 wins.

Position 7: White to play



■ 2f8+=10. Fritz1/P+2/P, NovForteA, TascR30-1995, GK2000, Hiarcs4/P (got it on a P133, but chose h4 on a P100), Genius2/P, Rexchess/P, CMaster3000/P, No-

■ 월66+=9. Spectrum2, Hiarcs2.1/4, MephLondon,

MephRisc2, FidDes2265, NovDiamond, CCSystem/486+P

 h4=7. CMach Gideon, Genius4/P+5/P, MCPro6/P, Fritz4/P+5/P, Hiarcs6/P, CMaster4000/P+5000/P, Socrates3/P, SuperEnterprise, MephAcademy, Meph-Montreux, MephBerlin, Woodpusher/PP, GK+TC2100, MephistoMM6, MephistoMM4, TascR30-1993

■ \(\mathbb{B}\) 7=6. Rebel7/P+8/P, Risc2500, FidMach2C, SciSu-

perstar, Sargon5/P, MephBerlinPro

■ \d8=6.

■ f3=2. (Mach King, MCPro5/P, Chessica/P

■ \modela a8=2. ColossusX/P

■ \(\mathbb{G}\)c8=2.

■ \(\mathbb{H}\)h8=2.

• Others=0.

I thought the computers would probably go

for one of the checks, and it was unlikely any of the '=2' scores will be picked. But three went for f3 (!) and a surprising number tried h4, the move played in the game.

And in the game, after 46.h4 h5, White won with 47.256+. But then someone found 46...e5+!? 47.f×e \$\text{\$\text{\$\secondot{8}}\$.\text{\text{\$\text{\$\text{\$\text{\$d}8}\$}}\$ b4 49.a×b4 a3 50.\(\mathbb{Z}\)a8 a2 51.b5 \(\mathbb{D}\)d6! and it seems Black is better. So I dropped h4 to 7.

So what of 46. \$\mathbb{G}f8+ \mathbb{G}g7 47. \$\mathbb{G}d8\$ **c)f6** (b4? 48.a×b a3 49.\(\mathbb{Z}\)a8 a2 50.b5 wins)

48.h4!? Is that good enough!

If 46. \$\bar{\pm}\$b6+ \$\dots f7\ 47. \$\bar{\pm}\$h6 \$\dots g7\ 48. \$\bar{\pm}\$e6 今f7, now what?! 49.罩e5 今f6 50.罩c5 maybe. Either way, once the fault with 46.h4 has been found, one of the rook checks is surely better - I think.

Total Scores

56 Hiarcs4/P, Genius2/P
 55 TascR30-1995, GK2000

54 Rexchess/P
 53 Fritz4/P, MephAcademy, Socrates3/P, MephistoMM4

52 MCPro6/P, Higrcs2.1/486, MephRisc2

 51 NovagSúperVIP
 50 FritzT/P, Hiarcs6/P, CMaster4000/P, Meph-Montreux

49 Genius4/P 48 MephistoBerlin

47 CMach King, MCPro5/P, Fritz5/P, CMaster5000/P, Chessica/P, CMaster3000/P, MephBerlinPro, Novag Diamond
 46 NovForteA, CCSystem/486

- 45 FidelityDes2265
 44 Genius5/P, Rebel8/P, MephLondon, Sargon5/P
 43 Woodpusher/PP, TascR30-1993
 42 CCSystem/P
 41 Rebel7/P, Risc2500, GK+TC2100, MephMM6
 40 CMach Gideon
 30 FidMach26
- 39 FidMach2C
- = 38 Fritz2/P
- = 36 Fritz2/P = 37 SciSuperstar = 36 = 35 = 34 = 33 = 32

- **3**

30 Spectrum2

29 SuperEnterprise, ColossusX/P

From the 'response level' it is clear that this is a type of test which many readers enjoy doing. I'll make sure to do more. My thanks to all who sent in results, especially the extra efforts of Frank Holt, Tim Craggs, J.W.

Atkinson, Reg Cox, Clive Munro, Michael Chang, Carlos Drake, Gerry Dyer, Robert Szax and Stan Grayland who all sent in sets for more than one program/computer, and to Barry Webber who included some particularly useful analysis and comment.

Two Strange Results

Finally Mike Watson and Michael Chang sent in results with the query: "What's go-

ing on?!"

The cause of Mike's question is shown in the Total Score List, namely that the Complete Chess System (CCSystem) scored more on a 486 than it did on the Pentium! There were 2 result variations:

[a] in position 1 CCS on a 486 had Ad7=5, whereas the Pentium version changed before the 10 mins were up, through searching deeper, to 2a3=0.

[b] in position5, CCS/486 had 2a4=8, whereas the deeper Pentium search found

②e6=9, recovering 1 point!

Thus the Pentium test (133MHz) scored less than the 486 test. A strange quirk! If the test was sheer tactics, of course the faster processor would 'always' win, probably by a rating equivalent of around 80 Elo. But where a test looks for levels of positional knowledge, there are occasions when a faster search might bring in some possible tactics, and falsely over-ride the knowledge.

Then I also noticed how well Ed Schroder's MephistoMM4 and Mephisto Academy dod, on their older 5MHz processors, compared with his Rebel7/8 versions and MephistoRisc2! The same cause?!

The second result does not appear on the either the individual results or Total Scores listings as, whilst Michael Chang reported the strange event, another submission didn't! I'll try to find time to test it myself.

However Michael reported that his MephAtlanta, whilst scoring at a very welcome 56 (!) at 9mins. dropped no less than 22 points in the final minute!

[a] Position 1 dropped from \(\mathbb{Z}\)d7=5 to

[b] Position 5 dropped, at 9mins35,

from 2e6=9 to h7=0.

[c] Position 7 dropped from Af8+=10 to f3=2. So MephMilanoPro scores 54, Meph Atlanta(9mins) 56, and (a really good machine) MephAtlanta (10mins) 34. Other Morsch results? Fritz1(!)+4 outscore Fritz5. Weird!

MChessPRO7 v I.M Tom O'DONNELL 'Fischer' BLITZ Match G/5 + 5secs per move.

Alan Tomalty, also known as 'Komputer Korner' on the Internet, followed up his organisation of the Hiarcs-Hergott Tournament Match with a 'Fischer' Blitz Match.

This time the pairing was the new MChessPRO7 with Hergott's second in the Hiarcs match, namely Tom O'Donnell.

O'Donnell's grading is slightly lower than Hergott's, nor has he been playing so regularly recently, having taken up a full-time post albeit in chess publishing.

Also against O'Donnell was the time control for this encounter: G/5 Blitz with a 5sec increment added for each move made. But no-one could have foreseen the outcome! Here is game 1:

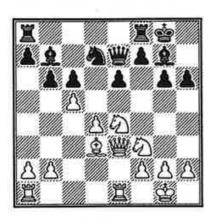
MCPro7 PPro - Tom O'Donnell (2450)
[D43]Queens Gambit, Botvinnik.

Game 1, Nov1997

1.d4 d5 2.c4 e6 3.2c3 c6 4.2f3 2f6 5.2g5 h6 6.2xf6 \(\psi\)xf6 7.\(\psi\c2 2d7 8.e4 dxe4 9.\(\psi\)xe4 g6 10.\(\psi\d3 \(\psi\)g7 11.0\(\psi\0 0\(\psi\) 12.\(\psi\e3 b6?!

12...e5 is the usual way to continue in the opening. Fianchettoing the ⊕ gives White the chance to gain a space advantage

13.\(\mathbb{I}\)fe1 \(\overline{\pm}\)b7 14.\(\overline{\pm}\)e4 \(\overline{\pm}\)e7 15.c5



White has won the space we mentioned. 15...bxc5 16.dxc5

Following the exchange White can now create threats along the open d-file 16...a5 17.\maxsc{\maxc{\maxsc{\maxc{\maxsc}\maxsc{\maxsc{\maxsc{\maxsc{\maxc{\maxsc}\maxsc{\maxsc{\maxsc}\maxsc{\maxsc{\maxsc}\maxsc{\maxsc}\maxsc{\maxsc{\maxsc}\maxsc{\maxsc}\maxsc{\maxsc}\maxsc{\maxsc}\maxsc{\maxsc}\maxsc{\maxsc}\maxsc{\maxsc}\maxsc}\maxsc{\maxsc}\maxsc{\maxsc}\maxsc}\maxsc}\maxsc{\maxsc}\maxsc}\maxsc}\maxsc}\maxcc}\maxsc}\maxsc}\maxsc}\maxsc}\maxsc}\maxsc}\maxsc}\maxsc}\max

17... 互fd8 18. 全c2 互ab8 is also possible.
18. 全xa6 互xa6 19.b3 互b8 20. 互d6 全f6
21. 全xf6+ 世xf6 22. 世d3 互ba8 23. 全e5!
White still has the advantage, and Black

must decide whether or not to go for a #-exchange.
23...#g5?!

Not best. White will be ahead whatever, but either [a] 23...\(\text{\Delta}f8!\)? 24.\(\text{\Delta}d7\)\(\text{\Period}f5\)
25.\(\text{\Period}xf5\) exf5 26.\(\text{\Delta}xf8\)\(\text{\Delta}xf8\)\(\text{\Delta}xf5\) for [b] the series of exchanges mentioned above by 23...\(\text{\Period}f5\) 24.\(\text{\Period}xf5\) gxf5 25.\(\text{\Exc6}\)\(\text{\Delta}xc6\)\(\text{\Delta}xc5\)
26.\(\text{\Exa6}\) 28.a3 preparing b4 and \(\text{\Exc1}(1\). As this offers White a promising advantage, perhaps 23...\(\text{\Delta}f8\) is better, certainly than the move played.
24.\(\text{\Delta}xc6\)\(\text{\Delta}h7\) 25.\(\text{\Period}b5\)\(\text{\Delta}c3\) 26.\(\text{\Text{\Delta}ed1}\)



26...\dotab4?

Better looks to be 26... 中 7 27. 国 d 7! 里 f 5 28. 图 b 7 国 x c 6 29. 国 x f 7 + 图 x f 7 though after 30. 国 d 7! 国 f 8! 31. 国 x f 7 + 国 x f 7 32. 图 x c 6 White wins.

In fact 26... Qg7 27. \(\mathbb{I}\) d7 \(\mathbb{I}\) f5 28. \(\mathbb{I}\) b7 \(\mathbb{I}\) h5 was the best way of delaying the end, and would still give MCP7 a few things to think about, though it should still win.

27. \(\mathbb{I}\) b7!

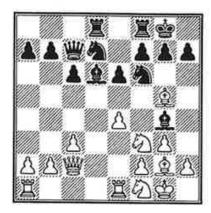
Surprise – that move seen in the analysis crops up again, but this time threatening mate by \(\mathbb{E}xf7\). If 27....\(\phig7\) (27...\(\mathbb{E}f6\) 28.\(\mathbb{E}d7\)\(\phig7\) 29.\(\mathbb{E}xf7+\) transposes) 28.\(\mathbb{E}d7\)\(\mathbb{E}f6\) (28...\(\mathbb{E}c3\)? 29.\(\mathbb{E}xf7+\)\(\phig8\) 30.\(\mathbb{E}c7!) 1–0

MCPro7 then won games 2, 3 and 4, before O'Donnell interrupted with a draw in game 5. Game 6 went to MCP7 and then this:

Tom O'Donnell (2450) – MCPro7 PPro [A07]Barcza System Game 7, Nov 1997

1.2f3 2f6 2.g3 d5 3.\mathbb{Q}g2 c6 4.d3 \mathbb{Q}g4 5.0-0 \text{2bd7 6.2bd2 e6 7.e4 \mathbb{Q}e7 8.c3 0-0 9.\mathbb{U}c2?! 9.\mathbb{U}e2 \mathbb{U}c7 10.\mathbb{U}e1 is book.

9...@d6 10.\(\mathbb{G}\)e1 \(\mathbb{G}\)c7 11.\(\Delta\)f1 dxe4 12.dxe4 \(\mathbb{G}\)ad8 13.\(\mathbb{G}\)g5



13...**£c**5?!

A very double-edged choice! Better in practical terms was 13...\(\precent{

14.\(\mathbb{H}\)ad1

Missing 14.e5! $\mathfrak{D}xf3$ (better than $14...\mathfrak{D}f5$ $15. \mathbb{H}e2 \mathfrak{D}g4 16. \mathbb{D}xd8 \mathfrak{D}xd8 17. \mathfrak{D}d4\pm$) 15.exf6 gxf6 16. $\mathfrak{D}f4\pm$

14...£e5 15.\(\vec{\pi}\)xd8 \(\vec{\pi}\)xd8 \(\vec{\pi}\)xd8 \(\vec{\pi}\)xe5

16.\(\Pixf6\) is the alternative: 16...gxf6 17.\(\Pixe5\) \(\Pixe5\) =

16... yxe5 17. gf4 yh5



18.2e3??-+

18. ⊕e3 is the only move here, and actually leaves the position almost equal! 18...e5!

There is no good answer to this! 19.2xg4

<u>alf</u> 19.@xe5 \undersense 20.b4 \undersense xe3 21.\undersense xe3−+

19...2xg4

After 19...2xg4 the end is 20.2e3 \(\psi \text{xh2} + 21.\psi f1 \(\pri \text{xe3} \) (21...2xe3+?! 22.fxe3 \(\psi \text{xg3} \) 23.\(\psi e^2 - +) 22.\(\psi \text{xe3} \\phi \text{xe3} + 23.fxe3 \(\psi \text{xg3} - + \) **0-1**

Game 8 went to MCP7 in just 24 moves, and the final score-table ended very discouragingly for the I.M:

A note of, I think, particular interest... did you spot it in game 1?... is that MCPro7 is willing to open with 1.d4 as well as 1.e4!!

However the big new book certainly had its say in the result as, in virtually all of the games O'Donnell varied from standard theory at some point, usually around moves 10-15, and got himself into difficulties. The resulting board and time pressure would then culminate in the I.M making inferior moves of one magnitude or another, so the two games I have selected are quite typical!

I understand that the Fritz5-O'Donnell match, which used the same time control, ended 7½-2½ in favour of Fritz5 (5-0=5) so, whatever part the 500,000 position book played, we must say that this is a pretty hot result for Marty Hirsch's latest version!

TOURNAMENT NEWS Weissenberg Tournament, Germany Time Control: Game in 3hours.

1	Shredder2 PPro/233	61/2/7
2=	Rebel7 K6/225	5
180	Fritz5 MMX/200	5
10.7	Virtual Chess1 MMX/200	5
5=		41/2
Ĭ,	Nimzo3.5 MMX/263	41/2
7=	CM4000 P/133	4
1.8.1	Hiarcs6 MAC/275	4
15,655	Nimzo98 K6/200	
0.0	Tasc R30-1995	4
44-		4
111=	Genius5 DOS MMX/200	31/2
	The King2.54 P/90	31/2
	CSTal Cyrix/200	31/2
H. H.	Scratch (King2.54 K6/233)	31/2
100	Rebel7 K6/233	31/2
17=	Milobarus 486/100	3
	Mephisto Berlin Pro 68020	3
19=	MChessPro6 P/200	21/2
H 113	Tasc R30-1993	21/2
21=	Sargon5 MAC/250	
172		
23		
100	Sargon5 MAC/250 WChess 486/66	

Notes:

- Scratch: King2.54 on a special setting by operator Kratz.
- Hiarcs6: Faster on the MAC than an MMX/266 but only 3MB hash.
- Rebel7: 2 entries by enthusiasts trying to prove it stronger than Rebel9!

RATING LISTS and NOTES

A brief guide to the purpose of each of the HEADINGS should prove helpful for everybody.

BCF. These are British Chess Federation ratings. They can be calculated from Elo figures by (Elo - 600) /8, or from USCF figures by (USCF - 720) /8.

Elo. This is the Rating figure which is in popular use Worldwide. The BCF and Elo figures shown in SELEC-TIVE SEARCH are calculated by <u>combining</u> each Computer's <u>results v computers with</u> its <u>results v humans</u>. This determines the ranking level and order and, I believe, makes this Rating List the most accurate available anywhere for computers and programs.

+/-. The maximum likely future rating <u>movement</u>, up or down, for that particular machine. The figure is determined from the number of games played and calculated on precise standard deviation principles.

Games. The total number of Games on which the computer's or program's rating is based.

Human/Games. The Rating obtained and the total no. of Games in Tournament play vs. rated humans.

A guide to PC Program Gradings:

386-PC represents a program running on an 80386 at approx. 33MHz with 4MB RAM.

486-PC represents a program running on an 80486 at between 50-66MHz with 4-8MB RAM.

Pent-PC represents a program on a Pentium at ap-

prox. 100-133MHz, with 8-16MB RAM.

PPro-PC represents a program on a Pentium Pro/200, or a Pentium/200 MMX.

Users will get slightly more (or less!) in each case, if the speed of their PC is significantly different. A <u>doubling</u> or halving in **MHz speed** = approx. **60** Elo; a doubling or halving in **MB RAM** = approx. **5~10** Elo.

Approx. quide if Pentium/100 = 0

Pentium Pro/200	+80	PentMMX/200	+80
Pentium/166	+40	Pentium/133	+20
Pentium/100	0	486DX4/100	-60
486DX2/66	I-80	486DX/50	-100
486DX-SX/33	-140	386DX/33	-200

SELECTIVE SEARCH

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