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COMPUTER CHESS. NEWS SHEET 5

Greetings to all readers, 'new' and 'old' alike; regulars will be able to tell that the electric typewriter still hasn't had repairs completed, but the Duplicator is back in action so I am hammering away on the borrowed portable again!

As I am currently conducting Tournament Level Matches between MEPHISTO AMSTERDAM, SCICYS TURBO KASPAROV and FIDELITY ELEGANCE game-scores from same take precedence this time. For those of you who prefer more of the NEWS and COMMENT style, I apologise, knowing that I shall have to leave some items over till next time.

HISTORY OF CHESS COMPUTERS.

I have recently been reading an article in a USA Magazine on the above subject and it has been most interesting. Although not said directly various comments made amount to this - 'We have seriously over-rated Chess Computers in the past. Now they have really arrived' (how often have you heard that?) 'we can admit it'. Various playing strength figures are given for some of the pre-1980 favourites which provide some shocks for any folk who still thought those early Machines were Chess PLAYERS when really they just knew the moves - at least most of them did!

It is good to be reminded of past over-confidence, but the steady flow of their Results in Tournaments against humans make it increasingly clear that they really are a force to be reckoned with now. Past issues of the News Sheet have referred to strong performances by FIDELITY and SCICYS Machines at the US Championship and NOVAG at the French Open. Further results coming in from MEPHISTO, NOVAG and SCICYS and referred to in the News Sections following show that the 'attack' is continuing well! And now that the programmers are improving the positional evaluation techniques and selective search is working properly I believe the future is bright.

MEPHISTO

It seems right to start with the World Micro Champion, the AMSTERDAM, especially as it has been busy proving its ability to a wider field since the World Championship. Results against humans in Tournaments now

include the following:-

5/9 at Montpellier, France in a Tournament running as a 'side-attraction' to the Candidates. A strong field and 2 Masters (2200+) beaten.

7 $\frac{1}{2}$ /12 at Wiesbaden, West Germany.

9/10 in a Speed Tournament in Helsinki. Strong opposition again. At the end FIDE Master Harri Hurme makes a speech on Chess Computers, pointing out their weaknesses, but embarrassingly proceeds to lose his exhibition game against the Amsterdam!

9/9 at Alabama, USA. Obviously it came first, the 1st. Computer victory against mortals under normal Tournament conditions as far as I know. Victims included 5 players rated over 2000.

SCICYS

The standard TURBO KASPAROV version's score of 6 $\frac{1}{2}$ /12 at the US Open was referred to in NS/3 with its Elo Rating of 2100+. One of the losers (Jerry Hanken, 2253) has (courageously) allowed his defeat to be published in an American Magazine with notes which are both amusing and serious. A well-worth reading Article if you come across it.

Whilst under the SCICYS heading, let me tell you their latest news:-

The TURBOSTAR has been 'sharpened up' slightly and its price reduced to £195. The KASPAROV Opening Module can be added for an extra £60 approx. Following my early Test Matches with this Machine, kindly loaned to me by SciSys, I have concluded that this is the best of the Opening Books - it is wide but deep (36000 positions) but contains some sharp lines often putting the Turbostar into an advantage. By contrast I have come to the conclusion that the CB16 Cartridge I have in my ELEGANCE, whilst being very helpful to an owner who wants to train himself in a wide variety of openings, does not improve the Elegance's performance as much as I had thought. In America they advertise the CB16 as adding only 25 Elo (didn't know this when I wrote the last NS) and I think they may be right. Perhaps the CB9 (narrower but deeper) does more for a Fidelity's performance.

It is hard to make too many comparisons between the TURBO KASPAROV and the MEPHISTO

AMSTERDAM because of the wide price difference. On the basis of a Playing Strength/Cost ratio the Scicys Machine will take some beating. But I have to admit I was a little disappointed with the lack of functions for Analysis/Hint help which is something which I am keen on myself for the benefit of my own Chess progress. But there is an excellent choice range for levels of use and the simple dark grey/light grey board and men are easy to see and work with though in no way comparing to the super styling and wood felted pieces on the Mephisto unit which I have (their 'middle' quality, the Exclusive S - goodness knows what their BEST one must be like!). The play style etc. readers can judge for themselves from the Games at the end of the News Sheet.

2 other Scicys items concern their 2 new Machines. It is the same programme, one in a table-top board running at 12mhz and Rating around 1850. Called TURBO 16k it will cost £90. The 8mhz version is a battery, plug-in travel (or sat-up-in-bed unit called EXPRESS 16k and costing £60.

NOVAG

The main Novag News must concern the CONST EXPERT's terrific performance in the well-known King's Head Quickplay. Time allowed is 30 mins for full game and the EXPERT, set at 15secs per move, scored 4/6 getting a 2128 rating. Being a Speed

16th ACM American Computer Champs.

1 HiTech	4 /4	2416
2 BeBe	3	2240
3 Int Chess Sft 2	2½	2138
=4 Cray Blitz	2	2035
Phoenix	2	2060
Chaos	2	2052
=7 Lechex	1½	1968
Spoc	1½	1968
Ostrich	1½	1965
10 Asit	½	1757

A HiTech game is given in Personal Computer World, January, and it looks very good.

The MEPHISTO AMSTERDAM ' F. EXCELLENCE and MEPHISTO AMSTERDAM ' N.SUPER C scores in NS/4 included scores at Speed Play - sorry! Results removed from my Ratings and scores at Tournament Speed (must be min. of 2 mins per move) given below with Ratings as usual.

- MEPHISTO AMST ' F.EXCELLENCE 5-1 (2200-1946)
- MEPHISTO AMST ' N.SUPER C 6½-1½ (2241-1961)
- MEPHISTO AMST ' N.SUPER C (different Match) 13-5 (2171-2033)
- MEPHISTO AMST ' N.SUPER C (Another Match! This was 1½-2½ last NS) 4½-4½ (1990-2215)
- MEPHISTO AMST ' F.ELEGANCE + CB16 (was 5-2) 11-2 (2302-1941)
- MEPHISTO AMST ' S.TURBO KASPAROV 8-2 (2241-1972)
- S.TURBO KASPAROV ' F.ELEGANCE + CB16 4½-1½ (2210-1816)

Tournament its result unfortunately wont qualify for my Rating Table- hard luck! - especially as 1 win was against a 213BCF (2300 Elo) player. The MEPHISTO AMSTERDAM was also entered and came behind the EXPERT this time with 3½/6 though I gather it did face slightly stronger opposition.

I believe that Novag have a SUPER CONSTELLATION and EXPERT in with the BCF at present for their endorsement/approval, which they will surely get. I also hear that Novag plan to make some improvements to the Super Constellation board and functions and put the Expert programme in it, still at 4mhz, for around £250.

CONGRESS

I haven't heard from CCC since my last News Sheet so remain uncertain about a Match between the AMSTERDAM and a CONGRESS contestant. Has any reader had a copy of their 'Chess Computers Today' Magazine since the September issue? I know of one other News Sheet reader who hasn't had his Nov. and Jan. bi-monthly issues and, as it isn't free like my effort, we're hoping they come soon.

BRITISH CHESS MAGAZINE

I was disappointed to see the BCM extract a brief critical comment from my December NS/3 and a longer piece of critical writing from the Sept issue of the ICCA Journal as their full contribution of comment on Chess Computers in their Feb. 1986 issue, especially as both publications spend 95% of their time highlighting the good and enjoyable things in this field. Of course it may be fun to write about such things rather than print, say, a copy of the 1985 World Micro Table, or give the game-score of a Chess Computer victory in one of the Tournaments I have mentioned against the 'superior' human opposition. There are so many good things to enjoy about the fast-advancing Chess Computer (not least the advertising revenue such as BCM get from the Manufacturers/Distributors!?) and, as time goes by, all Chess mags. will find themselves, even if reluctantly, having to include more and kinder comment about the Computer opposition.

Please forgive me, BCM, and thanks for the various reader enquiries which you've had and passed on to me! My renewal subscription enclosed!

MATCH REPORT: MEPHISTO AMSTERDAM v. FID ELEGANCE + CB 16

The first 7 games were covered in NS/4 to the point where MA led 5-2. From here MA proceeded to win the next 6 (!) games on the run and highlights follow.

Game 10. MEPHISTO AMSTERDAM (7) White
FID ELEGANCE + CB16 (2) Black
Reti Opening.

1 Nf3 d5 2 e3!? Nc6* 3 Bb5* a6 4 Bxc6
bxc6 5 d4 Nf6 6 Ne5 Bb7 7 0-0 e6 8 c4
dxc 9 Bd2 c5 10 Qa4+ Nd7 11 Re1 cxd
12 exd Bd6 13 Na3 Bxg5 14 dxe5 Bd5

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r - - q k - - r
- - p n - p p p
p - - - p - - -
- - - b P - - -
Q - p - - - - -
N - - - - - - -
P P - B - P P P
R - - - R - K -
    
```

15 Nxc4 Bxc4?!

15 - 0-0 was probably wiser

16 Qxc4 Nxe5 17 Qc3!

FE had expected 17 Rxe5 when making his 15th move. MA rates Qc3 at +1.24

17 - Ng6 18 Qc6+ Kf8 19 Rad1 Kg8 20 Bc3!
Qb8

20 - Qe8 is the MA suggestion. Times MA
0:52 FE 0:51

21 Rxe6!!

The move of the Match so far - with a repeat offer to come on move 23 to rival it. Here 21 - fxe6 results in mate in 4 by 22 Qxe6+ Kf8 23 Rd7 Ne5 24 Nxe5 Qb6 25 Bxg7 mate!

21 - Nf4 22 Re7 (+2.72) Qf8 23 Rxf7!! Kxf7
24 Rd7 Qe7 25 Rxe7+ Kxe7 26 Qxc7+

MA rated this 6.40 at move 24 and, in reality, the game would be resigned to the accompaniment of gallery applause. Final moves were:-

26 - Ke8 27 Qxf4 Rg8 28 Qe4+ Kd7 29 Qxh7
Kc6 30 Qe4+ Kc7 31 Be5+ Kd7 32 Qb7+ Ke6
33 Bxg7 a5 34 Qc6+ Ke7 35 Bf6 Kf7 36 Bc3
a4 37 Qd7+ Kg6 38 Qe6+ (9.99) Kh5 39 Qf7+
Kg6 40 Bd2+ Rg5

Times MA 1:40 FE 1:52

41 h4 Ra5 42 h5 Ra6 43 Qg8 Ra5 44 Qb8 mate

* * * * *

Game 13. FID ELEGANCE + CB 16 (2) White
MEPHISTO AMSTERDAM (10) Black
Kings Gambit

1 e4 e5 2 f4

Interestingly (and sadly, I think) MA went voluntarily play the King's Gambit as White. Nevertheless his 'Book' for the defence as Black proves to outlast the CB16 in this variation.

2 - exf 3 Nf3 d5 4 exd Nf6 5 Bb5+ c6
6 dxc Nxc6 7 d4* Bd6 8 0-0 0-0 9 Bxc6

MA had done well on 10th but it was not the

9 - bxc6* 10 c4 Ng4 11 c5 Bc7 12 Qa4 Bd7
13 Nc3 Re8 14 Bd2 Ne3 (+0.16) 15 Rf2 Qf6
16 d5

The FE forward analysis at this point indicates he is expecting a draw by move repetition. At first MA seems agreeable and his Ng4 shows the -0.12 rating which appears to be the MA assessment whenever a draw is indicated

16 - Ng4 17 Rf1 Bb8!

This suddenly steps out of the draw mode. If these were humans you would think that MA's decision to play on had unsettled the Elegance as his position deteriorates beyond all recognition. That is not to take away credit from the MA which plays destructively.

18 Rfe1 Ne5 19 Nxe5 Bxe5 20 Ne4? Qg6 (0.80)
21 d6 f3 22 Ng5 fxg

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r - - - r - k -
p - - b - p p p
- - p P - - q -
- - P - b - N -
Q - - - - - - -
- - - - - - - -
P P - B - - p P
R - - - R - K -
    
```

23 Rab1

23 Qc4 to stop MA's next isn't much better because of Rab8. 23 Kxg2 loses the N to h6

23 - Qd3 24 Bb4?

24 Bf4 (still -3.68) is a little better though 24 - Bd4! is somewhat terminal.

24 - Qd4+ (+4.80) 25 Kxg2 Qg4+ 26 Kh1 Qxg5
27 Bc3 Bxc3 28 bxc3 Be6! 29 Rxe6

29 - Bd5+ was threatened

29 - Qd5+ 30 Qe4 Qxe4 31 Rxe4 Bxe4 32 Rd1
Rd8 33 Rd4 Re1+ 34 Kg2 Re2+ 35 Kf1 Rxh2
36 a4 g6 37 Ke1 Kg7 38 Kd1 Rh5 39 Rc4 Re8
40 Kc2 Rd5

Time FE 1:47 MA 1:39. Rating MA +7.45

41 Rb4 Rxc5 42 d7 Rd8 43 Rb7 a5 44 Rc7 Kf6
45 Kd3 Ke7 46 Kd4 Rd5+ 47 Ke3 c5 48 Ra7
R8xd7 49 Rxa5 Rd3+ 50 Ke2 Rxc3 51 Ra8 Rc7
52 a5 Ra3 53 Kd2 c4 54 Ke1 c3 (9.99)
55 Kc2 Ra2+ 56 Kb3 c2 57 Kxc2 c1=Q 58 Ra7
Rxa7

The game finished here as obviously won for the MA.

* * * * *

2 things happened during this Game. Firstly I realised that I would never be fully happy with my Elegance again (unless it was strongly up-gradeable) and that I would have to have an Amsterdam of my own. Secondly the Scicys Turbo Kasparov arrived in the post so that I could give the Elegance a break from its current thrashing.

MATCH REPORT. MEPHISTO AMSTERDAM v. SCISYS TURBO KASPAROV.

Game 1 was won by MA as Black after 89 moves and we join game 2 with MA now as White and after his move 36 g4

```

- - - - R - - -
P R - - - - k p
- - - - - P -
- - r - - - -
P - B p - P P P
- P b - - K - -
- - - - -
- - - - R - - -
    
```

MA assesses this position in his favour at +1.36 being a Pawn up; but with opposite coloured Bishops the game has been a tight positional struggle. Here MA expects the reply 36 - h5

36 - Kh6? 37 g5+! (2.00)

I think this is a fine breakthrough coming as it does from almost nowhere.

37 Kh5 38 Be6!

Another good blow threatening 39 Bg4 mate 38 - Rf5

What else?

39 Bxf5 gxf5 40 Re6 Rb6

Times MA 1:47 TK 1:38. MA +3.12

41 Rxb6 axb6 42 Rc1 Kg6 43 h5+ Kg7 44 Ke2 Kf7 45 Kd3 Ke7 46 Rg1 (+4.68) Kf8 47 g6 h6 48 g7+ Kg8 49 Rg2 Ba1 50 Rg6 Bb2 51 Rxb6 Bc3 52 Rb5 Kxg7 53 b4! Kf7 54 a5 Kf6 55 a6 (+9.99 and the Pawn Queens in 2 more moves).

Game 4. MEPHISTO AMSTERDAM (2½) White
SCI TURBO KASPAROV (½) Black

From a Caro-Kann, Advance variation, the position after 30 moves:-

```

- r - - - - k -
- - - - - P P -
- - - - - p - - -
B - R p P - p -
- - - - n - - - -
- - - - -
P - - - - P P P
- - - - - K -
    
```

31 h3 Rb2 32 a4 Nb3?

This will be nicely met by MA who proceeds to pin down TK's R and N. After 32 a4 MA rated the position -0.40 and 32 - f6 aiming to undouble his g-pawns would have maintained the advantage for TK

33 Rb5! Kh7 34 Bc3! (+0.45) Rb1+ 35 Kh2 Kh8 36 Rb4!

An excellent move! 36 a5 (+0.72) looks strong but TK has Nd2 37 Rxb1 Nxb1 and some hope. After 36 Rb4! however, if Nd2 MA has Bxd2 which leave his R under the Bishop's protection.

36 - Kg6 37 a5! g4??

There is no hope for TK after this though 37 - d4 38 Bxd4 Rd1 is -1.12 and 37 - Kf5 38 a6 is -4.68.

38 a6 (+4.80!) g3 39 fxg d4 40 a7 dxc3
Times MA 1:48 TK 1:14. MA rating 7.08
41 a8=Q Re1 42 Qf3 Rxe5 43 Qxc3 f6
44 Qxb3 Kf7 45 Rb7+ Kg8 46 Qd3 Rg5 47 h4 Rg4 48 Qb5 Kf8 49 Qb5 Rxb4 50 gxh4 e5 51 Qf7 mate.

Game 8. MEPHISTO AMSTERDAM (6½) White
SCI TURBO KASPAROV (½) Black
Sicilian Dragon - 2 Knights

1 e4 c5 2 Nf3 d6 3 d4 cxd 4 Nxd4 Nf6
5 Nc3 Nc6 6 Bg5 e6 7 Qd2 a6 8 O-O-O h6
9 Be3 Nxd4 10 Bxd4 b5 11 f3*

It is worth commenting here on how wide, deep and sharp the Kasparov Opening Book is - almost always outlasting both Mephisto and the CB16 and more than 50% of the time with some advantage. Also how often the Amsterdam, though out of its Book, nevertheless finds Book moves. BCO calls the Dragon "razor-sharp and often violent", which just about sums-up the MA play in this game.

11 - Bb7* 12 a3 e5 13 Be3 Be7 14 Kb1!

Good. This is the right place for the King in this line according to BCO.

14 - O-O 15 h4 Nh5 16 Qf2 Rc8

15 h4 is another strong move recommended once Black has castled. MA rating +0.76

```

- - r q - r k -
- b - - - b p p -
P - - P - - - P
- p - - p - - n
- - - - P - - P
P - N - B P - -
- P P - - Q P -
- K - R - B - R
    
```

17 g4! Nf6 18 g5! hxg 19 hxg (2.28) Nd7 20 Qh2! f5

Times MA 0:46 TK 0:32. MA rating +4.64 having played the last few moves, I believe quite excellently.

21 g6 Bh4 22 Qxh4 23 Qxh4 23 Rxb4 fre 24 Bc4+!

MA rating 9.99 already, only 13 moves since leaving their Books!

24 - Rf7 25 Rh8+!

Announcing Mate in 4!

25 - Kxb8 26 Bxf7 Nf6 27 Rh1+ Nh4 28 Rxb5 and mate.

A VERY impressive performance.

After this game 9 was drawn in 100 moves, but TK won game 10 with Black in 76 to make the score 8-2 in the Amsterdam's favour.

MATCH : SCICYS TURBO KASPAROV v FID ELEGANCE + CB 16

The first 3 games of this Match were long, drawn-out affairs with TK winning a Pawn in the 1st. and 3rd. games, playing Black, and winning in 81 and 102 moves respectively. The 2nd. game was drawn after repetition of moves at 76. The main advantage to me of these first games was the idea (brainwave?) of using the Amsterdam as a 'monitor' and getting it to assess the position every few moves to help me see more easily where particularly good or poor moves had been played. On-the-spot 'expert' analysis!

So we come to game 4 with The Turbo Kasp. leading 2-1

Game 4. TURBO KASPAROV White
Fid ELEGANCE + CB16 Black
Queens Gambit Accepted.

1 d4 d5 2 c4 dxc 3 Nf3 Nf6 4 Qa4+ Nc6
5 Nc3 Bg4 6 Ne5 Bd7 7 Qxc4 Be6 8 Qb5 a6*
9 Nxc6 axb5 10 Nxd8 Kxd8

MA assesses this as +0.72 for TK who hasn't used any time yet against FE's 0:19.

11 Nxb5 Rxa2 12 Rxa2* Bxa2 13 Bf4 Nd5
14 Bd2 f5 15 e3
MA selected 15 g3 and +0.04 here so the opening advantage may have been illusory.
15 - Kf8 16 Bd3 e6 17 0-0?

17 Ke2 keeping the King central but still releasing the Rook was better.

17 - Bb3 18 Ra1 Kb8 19 e4 fre 20 Bxe4
Be7 21 Bxd5 Bxd5 22 Bf4 Rc8 23 Be5 g6
24 f4 Bc4 25 Ne3 Rf8 26 Ne4 Bd5 27 Nc5
Rd8 28 Kf2 h6 29 g3 h5 30 Ke3 g5 31 fxg
Bxg5+ 32 Kd3 Bh6?

32 - Be7 seems vital here to make Bd6 available to support the c-pawn. FE will now lose a pawn as TK takes full advantage of the error.

33 Rf1! Bg5 34 Rf7 (+1.24) Rc8 35 Rh7 Bc1
36 Kc2 Be4 37 Rxb5 b6 38 Nd3 Bc6 39 Rh7
Be4 40 Re7 Bf5

Times TK 1:45 FE 1:39. TK is well on top with the g and h. connected passed Pawns. MA's assessment at 39 was TK +1.64

41 h4 Ka8 42 b4??

This is a bad move and costs TK more than just his advantage. If 42 Kc3 c5 43 dxc5 and FE wont have Rxc5+ for the d3N is not pinned and can re-take.

42 - c5 43 bxc bxc 44 dxc Rxc5+! 45 Kb2
Bxd3 46 Re8+ Kb7 (+1.76) 47 Re7+ Kc8
48 Bf4 Bd4+ 49 Kb3 e5 50 Bg5 Be2 51 Bf6
Rc1 52 Rg7 Rf1 53 Be7 e4! 54 Rg6 Rg1
55 Bd6 e3 56 Kc2 Bf3 57 Kd3 Rd1+ 58 Kc4
Bh5 59 Rg5 Bf7+ 60 Kb5 Rb1+

Times TK 2:24 FE 2:24

61 Bb4 e2 (+9.99 and Mate occurred at move 68 giving FE a good win).

Game 5. Fid ELEGANCE + CB 16 White
TURBO KASPAROV Black
Sokolaky/St.Georges.

1 b4 e5 2 Bb2 Bxb4 3 Bxe5 Nf6 4 c4 0-0
5 Nf3 Nc6 6 Bb2 d5 7 cxd Qxd5 8 Bxf6
gxf6 9 e3 Bg4*

TK is thinking first, but I am impressed again with its Opening Book depth this being an unusual opening (Fidelity special supposedly)

10 Nc3* Qa5 11 Qc2 Bxf3 12 gxf3 Kh8
13 Bd3 Qh5 14 Be4 Rg8

Interesting complications are developing. MA considers 15 Rb1 strong here.

15 Nd5 Ba5!
This looks the best defence. FE expected Qe5 and MA chose Rd8. Times FE 0:34
TK 0:30

16 Rb1 (1.08) Rad8 17 Qc4??
FE had the fork Nxc6 and the even better Rxb7 which it rated best for 2 mins. MA analysed 17 Rxb7 Rxd5 18 Qxc6 Rd6 and FE still +0.60. Where Qc4 comes from I dont know, but it's a disaster.

17 - Ne5 18 Qe2 f5 19 Nf4 Qg5 20 Bxb7
Rxd2 21 Qxd2 Bxd2 22 Kxd2 Qe7 (TK +1.50)
23 Ke2 Qa3 24 Bd5 Qa6 25 Kd1 (-2.64!) Rd8
26 Kc1 Qa3 27 Kc2 c6 28 Rb3 Qa4 29 Kb1
cxd5 (TK +5.28) 30 Rb7 Qc6 31 Rb4 d4
32 Rd1 Qxf3 33 Rxd4 Rc8 34 Ka1 Qxf2
35 Rd1 Qxe3 36 Nd5 Qe2 37 R4b1 Nd3 (9.99!)
TK mated FE in 45 moves in a very impressive performance - but better is to come in game 6!

Game 6. TURBO KASPAROV White
Fid ELEGANCE + CB 16 Black
Petroff's Defence

1 e4 e5 2 Nf3 Nf6 3 Nxe5 d6 4 Nf3 Nxe4
5 d4 d5 6 Bd3 Be7 7 0-0 Nc6 8 c4 0-0*
9 cxd* Qxd5 10 Bxe4 Qxe4 11 Re1 Qf5
12 Nc3 Rd8 13 Qb3 Bf6?

MA 'went off' this when he found the reply 14 Nd5 (-0.08) and so preferred Bd6 (+0.20). As TK plays 14 Be3 we wont know 14 Be3 Qg4??

Times TK 0:20 FE 0:49! FE spent over 10 mins determined to move his Queen and settling on Qg4. It is an active move - a typical Elegance preference - but a bad move as TK quickly shows. MA chooses 14 - a6 when 15 Rad1 is -0.50
15 Nd5 Bxd4?

FE's 14th move undid him, but this is another error and he should have played Na5 (-0.45). FE seems to expect TK to 'play nicely' with some gentle exchanges on d4. Note, though, that TK also has 16 Nxc7! as well as the move played and this could proceed Rb8 17 Bxd4 and if Nxd4 18 Nxd4 and Rxd4 gets 19 Re8 mate

whilst 18 - Qxd4 19 Rad1! So FE must refuse the final exchange on d4 and is a piece down! TK's 16 h3 is not quite so good as Nxc7, but it's strong enough to change the game to his favour.
 16 h3 Qd7 (-1.04) 17 Bxd4 Qd6 18 Bc3 Be6 19 Rad1 Bxd5 (-2.08) 20 Rxd5 Qxd5 21 Re8+!
 A key move that FE must have missed, but TK seen, in their earlier analysis.
 21 - Rxe8 22 Qxd5 Rad8
 Times TK 0:45 FE 1:03 TK +2.20
 23 Qg5! f6 24 Bxf6 Rd7 25 Qg4 Rf7 26 Bc3

h6 27 Nh4 Re8 28 Nf5 Kh7 29 Nxc7 (3.96) Rxf2 30 Qe4+
 30 Nf5 +3.84 looks sharper
 30 - Kg8 31 Ne6 Rb5 32 Qg4+ Kf7 33 Qc4 Ke7 34 Nd4 Nxd4 35 Qxc7+ Ke8 36 Bxd4 Rf1+ 37 Kh2 a5 38 Bc5! (7.16) Rxc5 39 Qxc5 Rf6 40 Qxa5 b6
 Times TK 1:22 FE 1:55. The rest is a bit of a plod after the fireworks above, and FE defended doggedly so the game reached move 67 before FE was left with just his King and TK Queened the a-pawn. But a good win for TK who now leads 4½-1½.

Suggested RATING LIST, February 1986

HiTech	2350	33 S.TURBO 16K/12	1850
1 MEPHISTO AMSTERDAM	2212	34 WHITE KNIGHT 12	1848
Cray Blitz	2172	35 SUPER ENTERPRISE	1832
Belle	2155	36 F.ELITE OLD	1830
BeBe	2144	37 N.CONST/2	1820
2 F.AVANT GARDE/8	2132	38 MYCHESS 2	1812
Int Chess Sft 2	2125	39=PHILIDOR I.S.2	1805
3 CONCHESS PLYMATE/6	2080	39=L. REGENCE/EMPEREUR	1805
Nuchess	2062	41 S.EXPRESS 16K/8	1800
4 F.AVANT GARDE/5	2052	42 F.SENSORY 9/2	1790
Chaos	2052	43 MEPHISTO 2A	1750
5 N.CONST EXPERT	2040	44 CONCHESS AO	1748
6=MEPHISTO MM2	2032	45=MEPHISTO 3A	1740
6=CONCHESS PLYMATE/4	2032	45=CHESS 2001	1740
8 CONCHESS/6	2030	47 WHITE KNIGHT 11	1730
9 MEPHISTO BLITZ	2022	48 S.SUPERSTAR	1725
10 F.ELITE C	2018	49 CYRUS 2.5	1724
11 S.TURBO KASPAROV	2016	50 F.SENSORY 9/1.5	1720
Advance 3	2016	51=GGM + STEINITZ	1710
12 F.EXCELLENCE/5	2002	51=S.C/C MARK 6	1710
Orwell 85	2000	53 CYRIS I.S	1700
13 F.PRIVATE LINE	1995	54 MICROMURKS	1698
14 CONCHESS/4	1993	55 MEPHISTO 3	1688
15 N.SUPER CONST	1992	56 MEPHISTO 2	1676
16 S.TURBOSTAR 432	1988	57 GGM + MORPHY	1672
Psion/8	1986	58 S.C/C MARK 5	1654
17 F.ELEGANCE/3.6	1984	59 CHESS MASTER	1652
Avit	1974	60 CONCHESS A	1650
18 F.EXCELLENCE/4	1972		
Phoenix	1970		
Advance 2.4	1952		
19 F.SENSORY 12/5	1948		
20 F.EXCELLENCE/3	1930		
21 F.PRESTIGE	1924		
22=F.ELITE A	1918		
22=CONCHESS/2	1918		
Ostrich	1910		
24 MEPHISTO EXCL/12	1904		
25 PSION QL	1902		
26 F.ELITE B	1893		
27 N.CONST/3.6	1888		
28 F.SENSORY 12/3	1878		
29=AVE SARGON 4	1875		
29=COLOSSUS 4	1875		
31 SARGON 3	1860		
32 COLOSSUS 2	1852		

The List is extended this month following various requests to include Main Frames, some Home Computer programmes and some of the 'old favourites'. When you think that the List still doesn't go down far enough to include some of the top Machines of only 4 or 5 years ago such as Morphy Encore, Sargon 2.5, the C/C Super System 3 it makes you realise just how much Chess Computers are improving.

Results and Information from all Readers is always appreciated and welcome, however insignificant it may seem to you, so please keep them coming. Hoping you've all enjoyed this issue it's time now to get back to the Test Matches I am running. With an ICCA Journal due and Manufacturer's News coming in regularly NS/6 will soon take shape!