

The ACM's Eighteenth North American Computer Chess Championship



Dallas, Texas
October 25-27, 1987
A Special Event at the ACM-IEEE Computer Society's FJCC

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Welcome and Overview

I would like to welcome you all, participants and spectators, to the ACM's 18th North American Computer Chess Championship. Fourteen entries will compete over four rounds of play for the first place prize of a beautiful trophy and \$2000 in cash. Every year the programs improve, and this year is no exception. The current world champion program Cray Blitz is returning to the ACM annual event after being unable to attend last year when Bob Hyatt, the program's chief, was unable to make arrangements for a Cray computer. This year Cray Blitz will be running on a Cray XMP 4/8 from Mendota Heights, Minnesota. Last year's winner, Belle, is likely to give Cray Blitz a real challenge for the title. Belle decisively won the title last year, winning all four of its games. In addition to this strong duo, there will be several other very strong programs including Bebe, Sun Phoenix, Lachex, Novag X, and Chiptest-w. There are also several newcomers, GNU Chess, BP, and Greco, and several veteran performers, Cyrus 68K, Ostrich, and Recom.

The level of play by the best programs is clearly at the Master level, placing the best programs among the top 500-1000 players in the USA. The opening books are getting bigger every year and the hardware faster. It is interesting to note that seven of the programs were written in part in the language C, possibly an interesting new trend. It is also interesting to observe that all the participants are using either assembly language or C, although Cray Blitz and Lachex have parts written in Fortran. There are three programs using special purpose circuitry and four programs using multiprocessing systems, continuing these two trends that began several years ago.

Late Tuesday evening when the order of finish becomes clear, we will have a Wine and Cheese Party for the participants. Trophies will be awarded to the first three finishers (as well as a check to the winner for \$2000). We will also provide a trophy to the best program executing on a computing system at the site that weighs under 25 kilograms.

A Technical Session will be held on Tuesday, October 27th from 3:00 PM until 4:30 PM. Tony Marsland will serve as moderator, and a number of the participants will be on the panel. Short presentations will be made with a theme of trying to find out how well theory has turned out in practice.

The ACM's Computer Chess Committee will meet on Monday, October 26th and all are invited to attend this organizational meeting. It is here that we will make final decisions on next year's event and subsequent ones.

Mike Valvo will serve as Tournament Director. Mike has served for a number of year, taking over from David Levy when the later decided to compete. Mike is one of the top players in the US and is especially strong at blindfold chess. Every year, though, it becomes more difficult for him to understand the elaborate minds of the participants, but his running commentary on the games is a real treat.

Roger Johnson, of the Dallas Chess Club, helped with the local arrangements, and I would like to thank him and the other member of the club that helped us out. This is the second year running that they have assisted us. The city of Dallas has taken the lead as the host city for the ACM tournaments — there have been three here, and each time the Dallas Chess Club helped us out.

To the spectators, we all hope you enjoy the games. You should feel free to approach Mike Valvo with questions about the programs and suggestions for moves. The computers won't mind a noisy audience one bit!

Monty Newborn Chairman, ACM CCC
Hans Berliner, Tony Marsland, Kathe Spracklen,
and Ken Thompson, Members of the ACM CCC

Important Times and Places

1. Schedule of Rounds (games are in the Wedgewood Room)

Round 1:	1:00 PM	Sunday	October 25
Round 2:	7:00 PM	Sunday	October 25
Round 3:	7:30 PM	Monday	October 26
Round 4:	7:30 PM	Tuesday	October 27

3. **Awards Presentation:** Tuesday evening, October 27th at 11:30 PM, or as soon as the winners of the awards are determined.
4. **Technical Session:** Theory and Practice in Computer Chess, Tuesday, October 27th at 3:00-4:30 in the Wedgewood Room. Moderator: Tony Marsland.
5. **ACM Computer Chess Committee Meeting:** 12:45-2:00 PM, Monday, October 26th.
6. **ICCA Meeting:** 5:00-6:00 PM, Monday, October 26th.

Tournament Director: Mike Valvo

Organizing Committee: Roger Johnson, Monty Newborn

Admissions Committee: Ken Thompson, Hans Berliner, Tony Marsland, Monty Newborn, Kathe Spracklen.

The ACM Computer Chess Committee

In 1979, the ACM established the Computer Chess Committee as a standing committee on the Management Board. The committee was given the responsibility of organizing computer chess activities with the ACM. In 1984, the committee was transferred to the Conferences Board where it is today. The main function of the committee is to organize the ACM's Annual North American Computer Chess Championship. The tournament has been held annually since 1970. The current committee members are Monty Newborn, Chairman, Hans Berliner, Tony Marsland, Kathe Spracklen, and Ken Thompson.

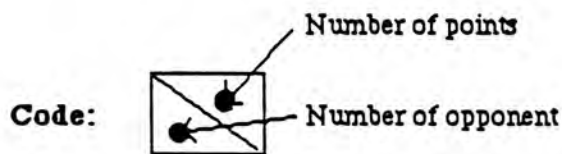
The International Computer Chess Association

Established at the Second World Computer Chess Championship in Toronto in 1977, this international association has about seven hundred members from all over the world. The ICCA Journal is the leading publication on the subject of computer chess, and one day may be the world's leading chess publication. It is published four times a year. Authors of articles should send them to Jaap van den Herik, Department of Mathematics and Informatics, Delft University of Technology, 2628 BL Delft, The Netherlands. For information on membership, write to Jonathan Schaeffer, Department of Computing Science, University of Alberta, Edmonton, Alberta, Canada T6G 2H1. Dues are \$20 annually. Current officers are David Levy, President, Tony Marsland, Vice President, and Jonathan Schaeffer, Secretary/Treasurer.

Score Table

ACM's 18th North American Computer Chess Championship

Team	Rounds				Total Points	Final Place
	1	2	3	4		
1 Bebe						
2 Belle						
3 BP						
4 Chiptest-w						
5 Cray Blitz						
6 Cyrus 68K						
7 GNU Chess						
8 Greco						
9 Lachex						
10 Novag X						
11 Ostrich						
12 Recom						
13 Sun Phoenix						
14 Waycool						



Information on Participants

Bebe Tony Scherzer and Linda Scherzer, SYS-10 Inc., 2117 Stonington Avenue, Hoffman Estates, Illinois 60195.

Belle Ken Thompson and Joe Condon, c/o KT, Room 2C519, Bell Laboratories, Murray Hill, New Jersey 07974.

BP Robert Cullum, P. O. Box 111, Prospect Heights, Illinois, 60070.

Chiptest-w Thomas Anantharamam, Feng-hsiung Hsu, and Murray Campbell, c/o FH, Department of Computer Science, Carnegie-Mellon University, Pittsburgh, Pennsylvania 15213.

Cray Blitz Robert Hyatt, Harry Nelson, Burt Gower, c/o RH, 1020 Gordon Woods Drive, Birmingham, Alabama 35244.

Cyrus 68K Mark Taylor and David Levy, c/o DL, Intelligent Chess Software Ltd., 11 Loudoun Road, London NW8 0LP, England.

GNU Chess Stuart Cracraft, John Stanback, Jay Scott, Jim Aspnes, c/o SC, 3021-B Harbor Blvd., Costa Mesa, California 92626.

Greco David Stafford, P. O. Box 2536, Denton, Texas 76202.

Lachex Tony Warnock and Burt Wendroff, c/o BW, MS B284, Los Alamos National Laboratory, Los Alamos, New Mexico 87545.

Novag X David Kittinger, 18923 Cantara Street, Reseda, California 91335.

Ostrich Monty Newborn, School of Computer Science, McGill University, 805 Sherbrooke Stree West, Montreal, Quebec, Canada H3A 2K6.

Recom Ed Schroder, Merel 10, 7423 EH Deventer, The Netherlands.

Sun Phoenix Jonathan Schaeffer and Marius Olaffson, c/o JS, Department of Computing Science, University of Alberta, Edmonton, Alberta, T6G 2H1.

Waycool Ed Felton, Steve Otto, Rod Morison, Rob Fatland, c/o EF, 206-49 Cal Tech, Pasadena, California, 91125.

Computing System Information

Program	Computing System and Language	Book	Nodes/ Sec
Bebe	SYS-10 Chess Engine*, assembler, 65Kb, 16 bits, 10 mips. (Tony Scherzer, Linda Scherzer)	4K	40K
Belle	PDP 11/23 with special chess circuitry, C+microcode, at Bell Laboratories, Murray Hill. (Ken Thompson, Joe Condon)	400K	150K
BP	Compaq 386*, C+Asm., 1Mb, 32 bits, 3-4 mips. (Robert Cullum)	8K	.5K
Chiptest-w	SUN 3 plus high speed move generator, C, at CMU. (Thomas Anantharamam, Feng-hsiung Hsu, Murray Campbell)	.5K	500K
Cray Blitz	Cray XMP 4/8, Fort.+Assem., 128Mb, 64 bits, 480 mips, at Cray Research, Mendota Height, Minn. (Robert Hyatt, Burt Gower, Harry Nelson)	50K	100K
Cyrus 68K	68020-based micro*, assem, (Mark Taylor, David Levy).	16K	4K
GNU Chess	VAX 8650, C, 8 Mb, 32 bits, 6 mips, at USC Information Sciences Institute, Marina del Rey, California. (Stuart Cracraft, John Stanback, Jay Scott, Jim Aspnes)	5K	.5-1.0K
Greco	AT Clone, C, 16 bits, 1mips, 640Kb. (David Stafford)	1K	.45K
Lachex	Cray XMP 4/16, Fortran and assembler, 16mwords, 64 bits, 105 mips, at Cray Research, Chippawa Falls, Wisconsin. (Tony Warnock, Burt Wendroff)	4K	50K
Novag X	6502 bit sliced microcomputer*, 6502 assembler, 4Kb RAM, 56 Kb ROM. (David Kittinger)	22K	4K
Ostrich	1 DG Eclipse S/120, 7 DG Nova's 4's, 64 Kb/proc., 16 bits, 1mips/proc., at McGill University. (Monty Newborn)	4K	2K
Recom	6502 gate array processor*, assembler, 8Kb RAM, 8 bits, 4 mips. (Ed Schroder)	7K	1.5K
Sun Phoenix	20 SUN 3 Workstations, C, at SUN Microsystems, Mountain View, Calif. (Jonathan Schaeffer, Marius Olaffson)	8K	20K
Waycool	512 processor N-cube Hypercube, 1/2 Mb/proc., 1mips/proc. C, at Cal Tech. (Ed Felto, Steve Otto, Rod Morison, Rob Fatland)	NA	NA

* indicates computer is at site

Tournament Rules

1. Each entry is a computing system and one or more human operators. A listing of all chess-related programs running on the system must be available on demand to the TD. Each entry requires at least one full-time operator (i.e., one operator cannot assist with more than one entry).
2. Participants are required to attend a meeting at 12:00 PM on October 25 for the purpose of officially registering for the tournament. Rules will be finalized at that meeting. The TD has the right to choose an alternate to replace any entry which fails to appear.
3. The tournament is a four round Swiss style tournament. The first and second rounds will be played Sunday October 25 at 1:00 PM and 7:30 PM. The third round is scheduled for Monday, October 26 at 7:30 PM, the fourth round for Tuesday October 27 at 7:30 PM.
4. Trophies will be awarded to the first three finishers. The order of finish will be determined by the total number of points earned. If two or more teams have an equal number of points, the sum of the opponents' points will be used as a second factor. If a tie still remains, the opponents' opponents' points, etc., will be used.
5. A trophy will be awarded to the entry running on a computing system that is present in Dallas and finishes highest based on tie-breaking points and weighs under 25 kilograms. That program will receive the title of North American Small Computing System Chess Champion.
5. A prize of \$2000 will be awarded to the program which finishes the tournament with the most points. In the event of a tie, the prize will be divided equally.
6. Unless otherwise specified, rules of play are identical to those of "human" tournament play. If a point is in question, the TD has the right to make the final decision.
7. Games are played at a speed of 40 moves per player in the first two hours and 20 moves per player per hour thereafter.
8. The TD has the right to adjudicate a game after five hours of total clock time. The adjudication will be made on the premise that perfect chess will be played by both sides from the final position. Every effort will be made by the TD to avoid adjudication.
9. A team may request the TD to stop its clock at most twice during the course of a game because of technical difficulties. The clock must be restarted each time after at most 15 minutes. If a team using a remote computer can clearly establish that its problems are not in its own computing system but in the communication network, the TD can permit additional time-outs.
10. Terminals located at the tournament site must communicate directly with remote computers, i.e., there cannot be any human intermediary at the remote location.

11. Each team that uses a terminal must position the terminal on the game table in such a way that the opponent has a good view of it. An operator can only (1) type in moves and (2) respond to request from the computer for clock information. If an operator must type in any other information, it must be approved ahead of time by the TD. (This might happen if there is noise on the communication line and, for example, a CR must be typed to clear the line.) The operator cannot query the system to see if it alive without permission of the TD.

12. If a failure occurs during the course of a game, the program parameters must be reset to their values at the time the game was interrupted. An operator error made when starting a game or when restarting in the middle of a game after a failure cannot be corrected!

13. If an operator types in an incorrect move, the TD must be immediately be notified. The clock will be stopped. The game must then be backed up to the point where the error occurred. The clock of the side which made the error is left unchanged while the TD will back up the clock of the other side an amount equal to that lost. The TD may back up the clock of the side in error if it would otherwise force that side to lose the game on time, or leave it with less than two minutes per move until the next time control. In this case, the TD will back up the clock of the side in error to give it an average of two minutes per move until the next time control. If no record is available, the TD will assume each move by the side not in error required three minutes. Both sides may adjust program parameters after such an error with the consent of the TD. The TD may not allow certain parameters to be changed, e.g., the contempt factor.

14. A team must receive the approval of the TD to change from one computing system to another. The new system cannot be any more powerful than the original.

15. Each game is officially played on a chess board provided by the Tournament Committee. The official clock is provided by the Tournament Committee.

16. At the end of each game, each team is required to turn in a game listing to the TD.

*P.S. It was difficult to enforce Rule #10 at the last ACM event. Every effort will be made to do so this year, however.

Technical Session

On Tuesday afternoon, October 27th, we will hold a technical session in the Wedgewood Room. The theme of the session is to discuss how well some of the theoretical approaches to computer chess have done in practice. Participants include Feng-hsiung Hsu, Robert Hyatt, Danny Kopec, David Levy, Jonathan Schaeffer, Tony Scherzer, and Ken Thompson. Tony Marsland will serve as moderator.

History of Major Tournaments

World Championships

Year	City	Winner	Runner-up
1974	Stockholm	KAISSA; Donskoy, Arlazarov, ICL 4/70	CHESS 4.0; Slate, Atkin, CDC 6600
1977	Toronto	CHESS 4.6; Slate, Atkin, CDC Cyber 176	DUCHESS; Truscott, Wright, Jensen, IBM 370/165
1980	Linz	BELLE; Thompson, Condon, PDP 11/23 with chess circuitry	CHAOS; Alexander, Swartz, Berman O'Keefe, Amdahl 470/V8
1983	New York	CRAY BLITZ; Hyatt, Gower, Nelson, Cray XMP 48	BEBE; Scherzer, Chess engine
1986	Cologne	CRAY BLITZ; Hyatt, Gower, Nelson, Cray XMP	HITECH; Berliner, et al., SUN workstation with chess circuitry

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ACM's North American Computer Chess Championships

Year	City	Winner	Runner-up
1970	New York	CHESS 3.0; Slate, Atkin, Gorlen, CDC 6400	DALY CHESS PROGRAM; Daly, King, Varian 620/i
1971	Chicago	CHESS 3.5; Slate, Atkin, Gorlen, CDC 6400	TECH; Gillogly, PDP 10
1972	Boston	CHESS 3.6; Slate, Atkin, Gorlen, CDC 6400	OSTRICH; Arnold, Newborn, DG Supernova
1973	Atlanta	CHESS 4.0; Slate, Atkin, Gorlen, CDC 6400	TECH II; Baisley, PDP 10
1974	San Diego	RIBBIT; Hansen, Crook, Parry, Honeywell 6050	CHESS 4.0; Slate, Atkin, CDC 6400
1975	Minneapolis	CHESS 4.4; Slate, Atkin, CDC Cyber 175	TREEFROG; Hansen, Calnek, Crook, Honeywell 6080
1976	Houston	CHESS 4.5; Slate, Atkin, CDC Cyber 176	CHAOS; Swartz, Ruben, Winograd Berman, Toikka, Alexander, Amdahl 470

1977	Seattle	CHESS 4.6; Slate, Atkin, CDC Cyber 176	DUCHESS; Truscott, Wright, Jensen, IBM 370/168
1978	Washington	BELLE; Thompson, Condon, PDP 11/70 with chess hardware	CHESS 4.7; Slate, Atkin, CDC Cyber 176
1979	Detroit	CHESS 4.9; Slate, Atkin, CDC Cyber 176	BELLE; Thompson, Condon, PDP 11/70 with chess hardware
1980	Nashville	BELLE; Thompson, Condon, PDP 11/70 with chess hardware	CHAOS; Alexander, O'Keefe, Swartz, Berman, Amdahl 470
1981	Los Angeles	BELLE; Thompson, Condon, PDP 11/23 with chess hardware	NUCHESS; Blanchard, Slate, CDC Cyber 17
1982	Dallas	BELLE; Thompson, Condon, PDP 11/23 with chess hardware	CRAY BLITZ; Hyatt, Gower, Nelson, Cray 1
1983	Not held as the ACM's North American Computer Chess Championship that year but as the Fourth World Championship. See information above on this championship.		
1984	San Francisco	CRAY BLITZ; Hyatt, Gower, Nelson, Cray XMP/4	BEBE; Scherzer, Chess Engine, and FIDELITY EXPERIMENTAL; Spracklen, Spracklen, Fidelity machine
1985	Denver	HITECH; Ebeling, Berliner, Goetsch, Palay, Campbell, Slomer, SUN with chess hardware	BEBE; Scherzer, Chess engine
1986	Dallas	BELLE; Thompson, Condon, PDP 11/23 with chess hardware	LACHEX, Wendroff, Cray X-MP

World Microcomputer Championships

Year	City	Winner	Runner-up
1980	London	CHESS CHALLENGER	BORIS EXPERIMENTAL.
1981	Travemunde	FIDELITY X	CHESS CHAMPION MARK V
1983	Budapest	ELITE A/S	MEPHISTO X
1984	Glasgow	Four way tie: ELITE X, MEPHISTO S/X, PRINCESS, PSION CHESS	
1985	Amsterdam	MEPHISTO AMSTERDAM I	MEPHISTO AMSTERDAM II
1986	Dallas	MEPHISTO DALLAS 3	FIDELITY "2533"
1987	Rome	MEPHISTO	CYRUS 68K

ACM's Seventeenth North American Computer Chess Championship

RESULTS AND GAMES (Ken Thompson)

Dallas, Texas
November 2-5, 1986

	rate	perf	1	2	3	4	5	total
1 Belle	2200	2507	15+■	2+□	6+■	4+■	7+□	5
2 Lachex	0	2249	9+□	1-■	13+□	10+■	4+□	4
3 Novag	0	1978	7-□	16+■	12=□	8+■	6+□	3½
4 Bebe	2100	2076	11+□	12+■	8+■	1-□	2-■	3
5 Phoenix	2000	1873	8-□	9-■	15+□	13+■	10+□	3
6 Mephisto	0	1910	13+□	10=■	1-□	9+□	3-■	2½
7 Challenger	0	1967	3+■	8-□	9=■	14+□	1-■	2½
8 Recom	0	1960	5+■	7+■	4-□	3-□	11=■	2½
9 Cyrus	0	1968	2-■	5+□	7=□	6-■	14+□	2½
10 Fidelity	0	1862	16+■	6=□	14+■	2-□	5-■	2½
11 Chiptest	0	1761	4-■	14-□	16-□	12+■	8=□	2½
12 Merlin	0	1676	14=■	4-□	3=■	11-□	15+□	2
13 Vaxchess	0	1463	6-■	15+□	2-■	5-□	16+■	2
14 Ostrich	1750	1696	12=□	11+■	10-□	7-■	9-■	1½
15 Waycool	1000	967	1-□	13-■	5-■	16=□	12-■	½
16 Rex	1000	969	10-□	3-□	11-■	15=■	13-□	½

Round 1
Bebe — Chiptest
C10/04 06 Nge2

1 e4 e6 2 d4 d5 3 ♘d2 dxe4 4 ♘xe4 ♖d5 5 ♘c3 ♗b4 6 ♘ge2 ♗d8 7 a3 ♗d6 8 g3 ♘f6 9 ♗g2 ♘c6 10 O-O ♗d7 11 ♗g5 h6 12 ♗xf6 ♗xf6 13 ♘e4 ♗f5 14 d5 exd5 15 ♘xd6+ cxd6 16 ♘f4 O-O-O 17 ♗e1 d4 18 ♗xc6 ♗xc6 19 ♗xd4 g5 20 ♗d3 ♗f6 21 ♘d5 ♗xb2 22 ♗ab1 ♗g7 23 ♘e7+ ♗c7 24 ♘xc6 ♗d7 25 ♗b5 b6 26 ♘a7 ♗d4 27 ♗c6+ ♗b8 28 ♗xd7 ♗d5 29 ♘c6+ ♗xc6 30 ♗xc6 d5 31 ♗xb6+ ♗a7 32 ♗b7# 1-0

Waycool — Belle
C44/09 12 O-O

1 e4 e5 2 ♘f3 ♘c6 3 c3 ♘f6 4 d4 ♘xe4 5 d5 ♘b8 6 ♘xe5 ♗c5 7 ♗g4 O-O 8 ♗xe4 d6 9 ♗d3 f5 10 ♗c4 b5 11 ♗xb5 ♗e7 12 O-O dxe5 13 ♗g5 ♗d6 14 ♗b3 ♗h8 15 ♘d2 ♘d7 16 ♗c4 h6 17 ♗e3 ♗xe3 18 fxex3 ♗b8 19 ♗a3 ♗b6 20 ♗f3 ♗xb2 21 ♗xb2 ♗xb2 22 ♗f2 ♗d8 23 ♘f3 ♗xf2 24 ♗xf2 e4 25 ♘d4 ♘e5 26 ♗b3 ♘g4+ 27 ♗e2 ♘xh2 28 c4 ♗a6 29 ♘b5 ♗d7 30 ♗d1 ♗xb5 31 cxb5 ♘g4 32 ♗d4 g5 33 ♗a4 ♘f6 34 ♗xa7 ♘xd5 35 a4 ♘c3+ 36 ♗f1 ♗d3 37 ♗c2 ♗d2 38 ♗b3 ♗b2 39 ♗a8+ ♗g7 40 ♗g8+ ♗h7 41 ♗e6 ♘d1 42 ♗g1 ♘xe3 43 g3 ♗g2+ 44 ♗h1 ♗xg3 45

♗c8 ♗g6 46 ♗xc7 ♗f6 47 ♗c6 ♗e5 48 b6 ♗h3+ 49 ♗g1 ♗f3 50 b7 ♗f1+ 51 ♗h2 ♗b1 52 ♗c8 g4 53 ♗g3 f4+ 54 ♗f2 g3+ 55 ♗e2 ♗b2+ 56 ♗e1 g2 57 ♗g6 ♗d4 0-1

Phoenix — Recom
B12/08 06 Be3

1 d4 c6 2 e4 d5 3 e5 ♗f5 4 ♘c3 e6 5 g4 ♗g6 6 ♗e3 ♗b4 7 ♗g2 h5 8 g5 c5 9 dxc5 ♘d7 10 c6 ♗xc3+ 11 bxc3 bxc6 12 ♘f3 ♗a5 13 ♗d2 ♘e7 14 ♗b1 c5 15 ♗e1 d4 16 ♘xd4 cxd4 17 ♗xa8 ♗xc3+ 18 ♗e2 ♗c4+ 19 ♗f3 ♗c8 20 ♗e4 ♘xe5+ 21 ♗g3 ♗xe4 0-1

Novag — Challenger
A00/00 00 a3

1 a3 a5 2 e4 ♘c6 3 d4 d6 4 ♗b5 ♗d7 5 ♘f3 ♘f6 6 ♘bd2 e5 7 c3 exd4 8 cxd4 d5 9 e5 ♘h5 10 ♘b1 ♘e7 11 ♗xd7+ ♗xd7 12 ♘c3 ♘c6 13 O-O h6 14 h3 g6 15 ♗b3 O-O-O 16 ♗e1 ♘g7 17 ♗f4 ♗e7 18 ♗d2 ♘e6 19 ♗b5 ♘cxd4 20 ♘xd4 ♘xd4 21 ♗xa5 ♗b8 22 ♗ad1 ♘b3 23 ♗b5 ♗xb5 24 ♘xb5 ♘xd2 25 ♗xd2 c6 26 ♘d4 c5 27 ♘f3 d4 28 e6 f6 29 ♘h4 ♗hg8 30 g3 d3 31 ♗ed1 c4 32 ♘g2 ♗ge8 33 ♘h4 ♗d6 34 ♘xg6 ♗xe6 35 ♘h4 ♗de8 36 ♘f5 ♗e1+ 37 ♗g2 ♗xd1 38 ♗xd1 ♗c5 39 b4 cxb3 40 ♗xd3 ♗e2 41 ♗f3 b2 42 ♗d8+ ♗a7 43 ♗d1 ♗xf2+ 44 ♗e4 ♗e2+ 45 ♗f4 ♗c2 46 ♗b1 ♗c4+ 47 ♗f3 ♗xa3 48 ♘d6

♙xd6 49 ♖xb2 ♗c3+ 50 ♕e4 ♙xg3 51 ♕f5
 ♙e5 52 ♖a2+ ♕b8 53 h4 b5 54 ♕g6 ♙f4 55
 ♕xf6 b4 56 ♖b2 b3 57 ♕e6 ♙c1 58 ♖b1
 ♖e3+ 59 ♕f7 b2 60 ♕f6 0-1

Mephisto — Vaxchess
 A28/02 06. B:d4

1 c4 e5 2 ♖c3 ♖c6 3 ♗f3 ♗f6 4 e4 ♙c5 5
 ♙xe5 ♗xe5 6 d4 ♙xd4 7 ♙xd4 d6 8 ♙e2 c5
 9 ♙d2 ♙e6 10 b3 O-O 11 O-O ♖c6 12
 ♖d1 ♗d4 13 ♙d3 ♖e8 14 ♙e3 ♙xe2+ 15
 ♙xe2 ♙e7 16 ♖c3 ♗g4 17 ♙f4 ♗e5 18
 ♙xd6 ♙xd6 19 ♖xd6 ♗g6 20 ♙e3 ♖ac8 21
 ♖ad1 ♗e5 22 h3 f6 23 f4 ♗f7 24 ♖6d3 b6
 25 f5 ♗e5 26 ♙e6 ♗xd3 27 ♖xd3 ♖xe6 28
 ♖d7 a6 29 ♕f2 ♖cc6 30 ♙f4 g5 31 ♙c7 h5
 32 ♕f3 ♕f8 33 g3 ♕e8 34 ♖h7 ♕f8 35 ♗d5
 b5 36 h4 g×h4 37 g×h4 bxc4 38 bxc4 ♕g8 39
 ♖d7 ♕f8 40 ♗f4 ♕e8 41 ♖d8+ ♕f7 42
 ♙xe6 ♕xe6 43 ♙f4 a5 44 ♖d5 ♕f7 45 ♖xh5
 ♕e6 46 ♙e3 ♖b6 47 ♖xc5 1-0

Ostrich — Merlin
 C42/09 10 Nd4

1 e4 e5 2 ♗f3 ♗f6 3 ♙xe5 d6 4 ♗f3 ♙xe4 5
 ♙e2 ♙e7 6 d3 ♗f6 7 ♙g5 ♙xe2+ 8 ♙xe2
 ♙e7 9 ♖c3 c6 10 ♗d4 ♗a6 11 O-O ♖c5 12
 b4 ♗e6 13 ♙xe6 ♙xe6 14 ♙f3 ♕d7 15 b5
 ♗d5 16 ♙xd5 ♙xg5 17 bxc6+ bxc6 18 ♙xe6+
 ♙e6 19 ♖ab1 ♖ab8 20 ♗e4 ♙f4 21 g3 ♙e5
 22 ♕g2 ♖b2 23 ♖xb2 ♙xb2 24 ♖e1 ♖b8 25
 ♗g5 ♙c3 26 ♖e2 e5 27 ♗xh7 ♖b2 28 a4
 ♕c8 29 ♗g5 ♕d7 30 f4 exf4 31 ♗h7 ♙g3 32
 ♗f8+ ♕c7 33 h×g3 ♕b6 34 ♕f3 ♕a5 35
 ♗g6 ♖a2 36 ♗e7 ♕b6 37 ♖e4 ♙f6 38 ♗f5
 d5 39 ♖b4+ ♕a5 40 ♖b7 a6 41 ♙xg7 ♖xc2
 42 ♗e6 ♙e5 43 g4 ♕xa4 44 g5 ♖c1 45 g6
 ♖g1 46 d4 ♙d6 47 g7 ♖g3+ 48 ♕e2 ♖g2+
 49 ♕e3 ♖g6 50 ♗f8 ♖g3+ 51 ♕f2 ♖xg7 52
 ♖xg7 ♙xf8 53 ♖c7 ♕b5 54 ♖b7+ ♕c4 55
 ♖c7 ♕xd4 56 ♖xc6 a5 ½-½

Lachex — Cyrus
 B22/15 05. Nf6

1 e4 c5 2 c3 d5 3 exd5 ♙xd5 4 d4 e6 5 ♗f3
 ♗f6 6 ♙b5+ ♖c6 7 O-O cxd4 8 c4 ♙d6 9
 ♗xd4 ♙d7 10 ♗xc6 ♙xc6 11 ♖c3 ♙c7 12
 ♙f3 ♙d6 13 ♙xc6+ bxc6 14 ♗b5 ♙xh2+ 15
 ♕h1 ♙c8 16 ♗xa7 ♖xa7 17 ♕xh2 O-O 18
 ♕g1 ♙b7 19 a4 ♖a5 20 ♙d2 ♖f5 21 ♙a3
 ♖b8 22 b4 ♗e4 23 ♙e1 ♙c7 24 a5 ♙f4 25
 a6 ♗d2 26 a7 ♖a8 27 ♙xd2 ♙xd2 28 ♖ad1
 ♙g5 29 b5 cxb5 30 ♙d6 ♖c8 31 ♙b8

♙xg2+ 1-0

Rex — Fidelity
 B22/14 08 Qd2

1 e4 c5 2 c3 ♖c6 3 d4 cxd4 4 cxd4 d5 5 exd5
 ♙xd5 6 ♗f3 e5 7 ♖c3 ♙b4 8 ♙d2 ♙c3 9
 bxc3 exd4 10 cxd4 ♗ge7 11 ♙e2 ♙f5 12
 O-O O-O 13 ♖d1 b5 14 ♙b2 a6 15 ♙f4 h6
 16 ♖ac1 ♙e6 17 a3 ♙b3 18 ♙xb3 ♙xb3 19
 ♖d3 ♙c4 20 ♖d2 ♗a5 21 ♖cd1 ♗d5 22 ♙d6
 ♖fe8 23 ♙d3 ♙xd3 24 ♖xd3 ♖c4 25 ♙c5
 ♗b2 26 ♖3d2 ♗xd1 27 ♖xd1 f6 28 ♖d2 ♖e4
 29 h4 g6 30 ♕h2 ♖ae8 31 ♙d6 ♕f7 32 ♙b4
 ♗xb4 33 axb4 ♖e2 34 ♕g3 h5 35 ♖xe2 ♖xe2
 36 d5 ♖e4 37 ♕h3 ♖xb4 38 ♕g3 ♖g4+ 39
 ♕h2 ♕e7 40 ♕g1 ♕d6 41 g3 ♕xd5 42 ♕f1
 a5 43 ♕e2 a4 0-1

Round 2
Vaxchess — Waycool
 E45/14 10 b3

1 d4 ♗f6 2 c4 e6 3 ♖c3 ♙b4 4 e3 b6 5 ♗ge2
 ♙a6 6 a3 ♙e7 7 ♗f4 d5 8 cxd5 ♙xf1 9 ♕xf1
 exd5 10 b3 O-O 11 a4 ♙b4 12 ♙d3 g5 13
 ♗fe2 ♖c6 14 ♙f5 h6 15 h4 ♗a5 16 h×g5
 ♗e4 17 ♗xd5 ♗xg5 18 ♗xb4 c5 19 ♗d3
 ♗xb3 20 ♖b1 ♗xc1 21 ♖xc1 cxd4 22 ♗xd4
 ♕g7 23 ♙e5+ f6 24 ♗f5+ ♕g8 25 ♗xh6+
 ♕h8 26 ♙b5 ♗h7 27 ♗f5 a6 28 ♙b3 ♙d7
 29 ♗d4 ♙b7 30 ♖c6 ♖ab8 31 ♗f4 ♖fc8 32
 ♗f5 ♖g8 33 ♖xf6 a5 34 ♖f7 1-0

Rex — Novag
 B22/01 02. e6

1 e4 c5 2 c3 e6 3 d4 d5 4 exd5 exd5 5 ♗f3
 ♙d6 6 ♙e3 c4 7 b3 cxb3 8 ♙b5+ ♖c6 9 axb3
 ♙d7 10 O-O ♗f6 11 ♗a3 O-O 12 ♖e1 a6
 13 ♙d3 ♖e8 14 ♖c2 ♙c7 15 h3 ♗a5 16 ♗e5
 ♗xb3 17 ♗xd7 ♗xd7 18 ♖a2 ♙xc3 19 ♙f5
 ♗f6 20 ♙b1 b5 21 ♕f1 ♗e4 22 ♕g1 ♙c4
 23 ♙b2 a5 24 ♗a3 ♙c3 25 ♖c2 b4 26 h4
 ♙xb2 27 ♖xb2 ♗bd2 28 ♙d7 ♖c4 29 ♙xe8
 ♗xb2 30 ♙c6 ♖c8 31 ♙xd5 ♗f6 32 ♙b3 a4
 33 ♙xf7+ ♕xf7 34 ♖e2 b3 35 ♗e1 a3 0-1

Challenger — Recom
 B13/05 13 Bd2

1 e4 c6 2 d4 d5 3 exd5 cxd5 4 ♙d3 ♖c6 5 c3
 ♗f6 6 ♙f4 g6 7 ♗f3 ♙g7 8 ♗bd2 ♗h5 9
 ♙e3 O-O 10 O-O f5 11 ♗b3 ♙d6 12 ♖e1
 f4 13 ♙d2 ♙g4 14 ♙e2 ♖ae8 15 ♗e5 ♙xe2
 16 ♙xe2 e6 17 ♗f3 e5 18 d×e5 ♗xe5 19

ㄱx5 ㄱe5 20 ㄱd3 ㄱf6 21 ㄱd4 ㄱe4 22 a4
 b6 23 ㄱb5 ㄱc5 24 ㄱe2 a6 25 ㄱd4 ㄱxd2 26
 b4 ㄱc4 27 ㄱxd2 ㄱf6 28 b5 a5 29 ㄱf3 ㄱe4
 30 ㄱd3 ㄱc8 31 ㄱxc4 ㄱxc4 32 f3 ㄱexd4 33
 cxd4 ㄱxd4t 34 ㄱxd4 ㄱxd4 35 ㄱf1 ㄱd2 36
 ㄱe1 ㄱf7 37 ㄱc1 ㄱa2 38 ㄱc6 ㄱxa4 39 ㄱxb6
 ㄱb4 40 ㄱb7+ ㄱe6 41 g3 fxg3 42 hxg3 h5 43
 b6 d4 44 ㄱe2 ㄱd5 45 ㄱd7+ ㄱc5 46 b7 a4
 47 ㄱc7+ ㄱd5 48 ㄱg7 a3 49 ㄱxg6 ㄱxb7 50
 ㄱh6 ㄱc4 51 ㄱc6+ ㄱb3 52 ㄱc1 a2 53 ㄱd3
 ㄱa3 54 ㄱa1 ㄱb1 55 ㄱxa2+ ㄱxa2 56 ㄱxd4
 ㄱg1 57 ㄱd3 0-1

Merlin — Bebe
 B22/16 09. Qa5

1 e4 c5 2 c3 d5 3 exd5 ㄱxd5 4 d4 e6 5 ㄱf3
 ㄱc6 6 ㄱe2 ㄱf6 7 O-O cxd4 8 cxd4 ㄱe7 9
 ㄱc3 ㄱa5 10 ㄱf4 O-O 11 ㄱe5 ㄱd8 12 ㄱxc6
 bxc6 13 ㄱe5 ㄱd7 14 ㄱf4 ㄱf8 15 ㄱe3 e5 16
 ㄱf3 exd4 17 ㄱxd4 ㄱf6 18 ㄱxc6 ㄱxd4 19
 ㄱxa8 ㄱxc3 20 ㄱc2 ㄱf6 21 ㄱe4 ㄱe6 22
 ㄱfd1 ㄱb8 23 ㄱd2 ㄱe5 24 ㄱd3 ㄱxb2 25
 ㄱd5 ㄱf4 26 ㄱg3 ㄱxg3 27 hxg3 ㄱxd5 28
 ㄱxd5 ㄱc2 29 ㄱad1 ㄱxa2 30 ㄱc1 a5 31 ㄱf1
 a4 32 ㄱc8 a3 33 ㄱa8 ㄱc3 34 ㄱb5 ㄱd4 35
 ㄱf5 h6 36 g4 g6 37 ㄱf3 ㄱc5 38 ㄱc8 ㄱa1+ 39
 ㄱe2 ㄱb4 40 ㄱe3 a2 41 ㄱa8 ㄱe1+ 0-1

Belle — Lachex
 C24/05 04. Bb4+

1 e4 e5 2 ㄱc4 ㄱf6 3 d4 exd4 4 ㄱf3 ㄱb4+ 5
 c3 dxc3 6 bxc3 ㄱc5 7 e5 ㄱe7 8 ㄱe3 ㄱe4 9
 ㄱd3 ㄱxe3 10 ㄱxe3 ㄱc5 11 O-O O-O 12
 ㄱd1 ㄱc6 13 ㄱd5 b6 14 ㄱd4 ㄱb7 15 ㄱxc6
 dxc6 16 ㄱf5 ㄱe6 17 ㄱd4 ㄱg6 18 f4 ㄱe4
 19 ㄱg3 ㄱe6 20 ㄱxe6 fxe6 21 ㄱd7 ㄱf7 22
 ㄱxf7 ㄱxf7 23 ㄱd2 ㄱe2 24 ㄱf3 ㄱe3+ 25
 ㄱh1 ㄱg8 26 ㄱd1 ㄱh8 27 ㄱd7 ㄱg8 28
 ㄱxc7 ㄱa8 29 ㄱg1 ㄱxg3 30 hxg3 c5 31 ㄱxa7
 h6 32 ㄱa6 ㄱb8 33 ㄱh2 h5 34 ㄱf3 ㄱe4 35
 ㄱg5 ㄱd5 36 a4 ㄱc4 37 ㄱa7 ㄱg8 38 a5 bxa5
 39 ㄱxa5 ㄱc8 40 ㄱe4 ㄱd5 41 ㄱxc5 ㄱxc5 42
 ㄱxc5 ㄱf7 43 ㄱh3 ㄱe7 44 ㄱd3 ㄱd7 45
 ㄱh4 g6 46 ㄱg5 ㄱe7 47 ㄱb4 ㄱe4 48 c4
 ㄱd7 49 c5 ㄱc7 50 ㄱf6 ㄱf5 51 ㄱe7 ㄱg4 52
 ㄱc2 ㄱc6 53 ㄱd4+ ㄱxc5 54 ㄱxe6+ 1-0

Fidelity — Mephisto
 D11/03 04 e4

1 d4 d5 2 c4 dxc4 3 ㄱf3 c6 4 e4 b5 5 ㄱf4
 ㄱf6 6 ㄱbd2 ㄱg4 7 ㄱe3 e6 8 ㄱe2 ㄱbd7 9
 O-O ㄱc7 10 h3 ㄱh5 11 ㄱc2 ㄱb4 12 e5
 ㄱg6 13 ㄱc1 ㄱd5 14 ㄱh4 ㄱd3 15 ㄱxd3

ㄱx3 16 fxe3 cxd3 17 ㄱhf3 c5 18 a3 ㄱxd2
 19 ㄱxd2 c4 20 ㄱac1 ㄱb7 21 b3 ㄱc8 22
 ㄱb4 ㄱc6 23 a4 c3 24 axb5 ㄱe4 25 ㄱxc3
 ㄱxe3+ 26 ㄱh2 ㄱxc3 27 ㄱxc3 O-O 28 ㄱd1
 ㄱb6 29 ㄱxd3 ㄱe2 30 ㄱd2 ㄱf1 31 ㄱd1
 ㄱxd1 32 ㄱxd1 ㄱd8 33 ㄱa1 ㄱd7 34 ㄱc1 f6
 35 ㄱc5 ㄱf7 36 ㄱg3 ㄱd5 37 ㄱh4 ㄱb7 38
 ㄱd2 ㄱf4 39 exf6 gx6 40 g3 ㄱe2 41 ㄱf3
 ㄱd7 42 g4 ㄱxd4 43 ㄱxd4 ㄱxd4 44 ㄱc7+
 ㄱg6 45 ㄱxa7 ㄱb4 46 ㄱb7 e5 47 ㄱb8 ㄱxb3
 48 b6 ㄱg7 49 ㄱb7+ ㄱh6 50 ㄱb8 ㄱg6 51 b7
 ㄱg7 52 g5 f5 53 ㄱe8 ㄱb4+ 54 ㄱh5 ㄱxb7 55
 ㄱxe5 ㄱf7 56 ㄱe3 ㄱd7 57 ㄱf3 ㄱf7 58 ㄱf4
 ㄱf8 59 ㄱf2 ㄱf7 60 ㄱf3 ㄱf8 61 h4 ㄱ-ㄱ

Chiptest — Ostrich
 A03/07 04 b3

1 f4 d5 2 e3 ㄱf6 3 ㄱf3 ㄱg4 4 b3 ㄱbd7 5
 ㄱb2 ㄱe4 6 ㄱe2 ㄱxf3 7 ㄱxf3 e6 8 ㄱxe4
 dxe4 9 O-O ㄱh4 10 g4 O-O-O 11 ㄱc3 f5
 12 gx6 ex6 13 ㄱh1 ㄱc5 14 ㄱb5 a6 15
 ㄱd4 ㄱh3 16 ㄱg1 ㄱd5 17 ㄱxf5 ㄱxf5 18
 ㄱxg7 ㄱxg7 19 ㄱxg7 ㄱf3+ 20 ㄱxf3 exf3 21
 ㄱxc7+ ㄱxc7 22 ㄱf1 ㄱe4 23 d3 ㄱd2 24 ㄱf2
 ㄱe8 25 ㄱxd2 ㄱxe3 26 ㄱg1 ㄱxf4 27 ㄱf2
 ㄱe5 28 c3 ㄱh5 29 ㄱf1 f2 0-1

Cyrus — Phoenix
 C10/02 04 e5

1 e4 e6 2 d4 d5 3 ㄱc3 ㄱc6 4 e5 ㄱb4 5 ㄱe2
 f6 6 ㄱf3 ㄱge7 7 exf6 gx6 8 ㄱd2 ㄱf5 9 a3
 ㄱf8 10 ㄱd3 ㄱcxd4 11 ㄱxd4 ㄱxd4 12 ㄱh5+
 ㄱd7 13 O-O f5 14 ㄱfe1 h6 15 ㄱg6 c5 16
 ㄱb5 ㄱc6 17 ㄱxd4+ cxd4 18 ㄱxf5 ㄱd6 19
 ㄱxe6 ㄱxe6 20 ㄱxe6 ㄱc7 21 ㄱxh6 ㄱd7 22
 f4 ㄱag8 23 ㄱf6 ㄱc5 24 ㄱe5+ ㄱc8 25 ㄱh1
 ㄱe8 26 f5 a5 1-0

Round 3
Recom — Bebe
 E03/01 09. Bc5

1 d4 ㄱf6 2 g3 d5 3 ㄱg2 e6 4 c4 dxc4 5
 ㄱa4+ ㄱbd7 6 ㄱxc4 c5 7 ㄱf3 ㄱb6 8 ㄱd3
 cxd4 9 O-O ㄱc5 10 ㄱd1 O-O 11 e3 ㄱd5 12
 exd4 ㄱd8 13 ㄱg5 ㄱe7 14 ㄱe5 ㄱa5 15 ㄱc3
 h6 16 ㄱe3 h5 17 a3 ㄱbd5 18 ㄱxd5 ㄱxd5 19
 b4 ㄱa4 20 ㄱf3 h4 21 ㄱd2 hxg3 22 fxg3 b6
 23 ㄱh5 f5 24 ㄱf7+ ㄱf8 25 ㄱe2 ㄱf6 26
 ㄱh5 ㄱd7 27 ㄱe1 ㄱxe5 28 dxe5 ㄱe8 29
 ㄱxe8 ㄱxe8 30 ㄱh7 ㄱf7 31 ㄱh4 ㄱb5 32
 a4 ㄱd3 33 ㄱh5+ ㄱg8 34 ㄱad1 ㄱd4+ 35
 ㄱh1 ㄱxb4 36 ㄱxb4 ㄱxb4 37 ㄱg6 ㄱe8 38
 ㄱa1 ㄱad8 39 ㄱh5 ㄱe7 40 ㄱad1 ㄱed7 41

♖a1 ♗b3 42 ♕g2 ♜d2+ 43 ♕g1 ♗d5 44 ♗h3 ♜c8 45 ♜ac1 ♗d4+ 46 ♕h1 ♗e4+ 0-1

Lachex — Vaxchess

B22/15 05. Nf6

1 e4 c5 2 c3 d5 3 exd5 ♗xd5 4 d4 e6 5 ♖f3 ♖f6 6 ♖b5+ ♖d7 7 ♖xd7+ ♖bxd7 8 O-O cxd4 9 cxd4 ♖b4 10 ♗a4 a5 11 ♖c3 ♖xc3 12 bxc3 b5 13 ♗a3 e5 14 ♖g5 e4 15 ♖xf6 ♖xf6 16 ♖e5 a4 17 ♜ab1 h5 18 ♗b4 ♗xa2 19 c4 bxc4 20 ♗b5+ ♕e7 21 ♗b7+ ♕e6 22 ♗xf7+ ♕f5 23 ♖xc4 ♕f4 24 g3+ ♕g4 25 ♗xg7+ 1-0

Chiptest — Rex

A03/08 04. Nbd7

1 f4 d5 2 e3 ♖f6 3 ♖f3 e6 4 b3 ♖bd7 5 ♖e2 ♖c5 6 ♖b2 O-O 7 O-O ♖e4 8 ♖c3 ♖b6 9 ♜e1 ♖d7 10 ♖xe4 dxe4 11 ♖e5 ♖d5 12 ♜f1 b5 13 c4 bxc4 14 ♖xc4 ♜b8 15 ♖e5 ♖b5 16 ♖xb5 ♜xb5 17 ♗c2 ♖f6 18 a4 ♜b6 19 ♗xc5 ♗xd2 20 ♖c4 ♗c2 21 ♖a3 ♜bb8 22 ♗xc7 ♜fc8 23 ♗xa7 ♜xb3 24 ♜ac1 ♗e2 25 ♖a5 ♜bc3 26 ♜xc3 ♜e8 27 ♖c4 ♖d5 28 ♖e5 ♕h8 29 ♗xf7 ♜b8 30 ♗xe6 ♗xf1+ 31 ♕xf1 ♖xe3+ 32 ♜xe3 h6 33 ♖f7+ ♕h7 34 ♖g5+ ♕h8 35 ♖b2 h5 36 ♗h6+ ♕g8 37 ♗xg7# 1-0

Ostrich — Fidelity

C68/06 10 O-O

1 e4 e5 2 ♖f3 ♖c6 3 ♖b5 a6 4 ♖xc6 dxc6 5 d4 exd4 6 ♗xd4 ♗xd4 7 ♖xd4 ♖d7 8 ♖c3 O-O-O 9 ♖e3 ♜e8 10 O-O ♖f6 11 f3 h5 12 ♖g5 ♖h7 13 ♖h4 ♖d6 14 ♜ad1 g5 15 ♖f2 ♖f6 16 ♖e3 ♜hg8 17 ♜f2 g4 18 ♕h1 ♖xh2 19 ♜fd2 ♖d6 20 ♖f2 gxh3 21 gxh3 h4 22 ♜e2 ♖h5 23 e5 ♖xe5 24 ♖xh4 ♜h8 25 ♜xe5 ♜xe5 26 ♕h2 c5 27 f4 ♜e3 28 ♕g1 ♖xf4 29 ♖f6 ♜g8+ 30 ♕f2 ♜gg3 31 ♕f1 cxd4 32 ♖xd4 ♜gf3+ 33 ♕g1 ♜e8 0-1

Mephisto — Belle

D31/11 04 Qb3

1 d4 d5 2 c4 e6 3 ♖c3 c6 4 ♗b3 dxc4 5 ♗xc4 b5 6 ♗d3 ♖a6 7 ♖e4 b4 8 ♗d2 ♗d5 9 ♖g3 ♖f6 10 ♖f3 c5 11 e3 ♖xf1 12 ♜xf1 ♖c6 13 b3 cxd4 14 exd4 ♜d8 15 ♖b2 a5 16 ♗c2 ♜c8 17 ♜c1 ♜c7 18 ♗d3 ♖d6 19 ♜c4 O-O 20 ♜g1 ♜fc8 21 ♗e2 ♖f4 22 ♖f1 ♗f5 23 ♖3d2 ♖d5 24 ♖e4 ♗g6 25 g3 ♖b6 26 ♜c5 ♖d7 27 ♜c4 ♖h6 28 ♗c2 ♖b6 29 ♜c5

♖d5 30 ♗d3 ♖f4 31 ♗f3 ♖h3 32 ♜g2 ♖g5 33 ♖xg5 ♖xg5 34 ♖e3 ♖e7 35 ♜c4 ♗b1+ 36 ♖d1 ♗xa2 37 d5 exd5 38 ♜g4 g6 39 ♗d3 ♜d8 40 ♜f4 ♖g5 41 ♜g4 ♖c1 42 f4 ♜e8+ 43 ♕f1 ♜ce7 44 ♖e5 ♖xe5 45 fxe5 ♗a1 46 ♜f2 ♜xe5 47 ♕g2 f5 48 ♜xf5 ♜xf5 49 ♗xf5 ♗e5 50 ♗xe5 ♜xe5 51 ♕f3 ♕f7 52 ♜d4 ♕e6 53 g4 ♖g5 54 ♜d3 h5 55 ♖f2 ♕d6 56 gxh5 gxh5 57 ♖h3 ♖h6 58 ♖g1 ♜e4 59 ♖e2 ♕e5 60 ♖g3 ♜f4+ 61 ♕g2 h4 62 ♖e2 ♜e4 63 ♕f2 ♖f8 64 ♕f3 ♖c5 65 ♜d2 ♜e3+ 66 ♕g4 ♜xb3 67 ♖f4 d4 68 ♖d3+ ♕d5 69 ♕xh4 ♖d6 70 ♖b2 ♜e3 71 ♕g4 ♜e4+ 72 ♕h5 ♜e5+ 73 ♕g4 ♜e3 74 h3 ♜g3+ 75 ♕h4 b3 76 ♜f2 ♜e3 77 ♜f1 ♖a3 78 ♜f5+ ♕e6 79 ♜f2 ♖xb2 80 ♜xb2 a4 81 ♜g2 a3 82 ♜g5 a2 0-1

Phoenix — Waycool

A45/10 11 Kh1

1 d4 ♖f6 2 ♖g5 ♖e4 3 ♖h4 g5 4 f3 gxh4 5 fxe4 c5 6 e3 ♗b6 7 ♖f3 ♗xb2 8 ♖bd2 ♗c3 9 ♖d3 ♖h6 10 O-O ♖xe3+ 11 ♕h1 ♖xd2 12 ♖xd2 cxd4 13 ♖b3 O-O 14 ♗g4+ ♕h8 15 ♗xh4 f6 16 e5 ♜f7 17 exf6 exf6 18 ♜ae1 ♗xd3 19 ♜xf6 1-0

Cyrus — Challenger

A18/13 10. Nc6

1 c4 ♖f6 2 ♖c3 e6 3 e4 d5 4 e5 d4 5 exf6 dxc3 6 bxc3 ♗xf6 7 d4 c5 8 ♖f3 cxd4 9 ♖g5 ♗f5 10 cxd4 ♖c6 11 c5 ♖d7 12 ♖d3 ♗d5 13 ♗b3 b6 14 ♜c1 f6 15 ♗xd5 exd5 16 ♖d2 bxc5 17 dxc5 ♜b8 18 O-O ♖g4 19 ♖f4 ♜b2 20 ♜fe1+ ♖e7 21 ♜e2 ♜b4 22 ♖d6 ♕f7 23 ♖xe7 ♖xf3 24 gxh3 ♖xe7 25 c6 g6 26 c7 ♖c8 27 ♜d2 ♕e6 28 ♜dc2 ♕d7 29 ♜c5 ♕d6 30 ♜c6+ ♕e7 31 ♕g2 ♜b2 32 ♜1c5 ♜b6 33 ♜c2 ♜xc6 34 ♜xc6 ♜e8 35 ♜c1 ♕d6 36 ♖b5 ♜g8 37 ♕g3 d4 38 ♜c6+ ♕e7 39 ♖c4 ♜f8 40 ♖a6 ♕d7 41 ♜c1 ♕d6 42 ♕f4 ♜e8 43 h4 ♕d5 44 h5 ♕d6 45 hxg6 hxg6 46 ♕g4 ♜h8 47 f4 ♕d7 48 ♖b5+ ♕e7 49 f5 gxh5+ 50 ♕f4 ♜h4+ 51 ♕g3 ♜g4+ 52 ♕f3 ♜g7 53 ♖a6 ♕d7 54 ♕e2 ♜g2 55 a3 ♜h2 56 ♕d3 ♜xf2 57 ♕xd4 ♜h2 58 ♖b5+ ♕d6 59 ♜c6+ ♕e7 60 ♖d3 ♜h5 61 ♕e3 ♜h3+ 62 ♕d2 ♜h2+ 63 ♕e1 ♕d7 64 ♜c3 ♕e6 65 ♖a6 ♜h8 66 ♜d3 ♕e7 67 ♕f2 ♜f8 68 ♜c3 ♕d7 69 ♖b5+ ♕d6 70 ♜c6+ ♕d5 71 ♜c1 ♕d6 72 ♖a6 ♕e6 73 ♜d1 ♕e7 74 ♕e3 ♜h8 75 ♖b7 ♖b6 76 ♜c1 ♖c8 77 ♖g2 ♜h4 78 ♕f2 a5 79 ♜c5 a4 80 ♜c3 ♕d6 81 ♖b7 ♕d7 82 ♕g3 ♜h8 83 ♕f4

♖d6 84 ♗d5 ♜c8 85 ♘c6+ ♙xc7 86 ♚xa4+ ♛b6 87 ♜xc8 ♞xc8 88 ♟xf5 ♠d6+ 89 ♡xf6 ♣c4 90 ♢c2 ♤xa3 ½-½

Novag — Merlin
C30/13 11 Bd3

1 e4 e5 2 f4 ♗c5 3 ♖f3 d6 4 c3 ♖f6 5 fxe5 dxe5 6 ♞xe5 ♟e7 7 d4 ♗d6 8 ♖f3 ♞xe4 9 ♗e2 O-O 10 O-O c5 11 ♗d3 ♠d7 12 ♜e1 f5 13 ♗c4+ ♡h8 14 ♗e3 ♠b6 15 ♠bd2 cxd4 16 cxd4 ♞xc4 17 ♞xc4 ♗b4 18 ♗d2 ♗e6 19 ♜c1 ♗xd2 20 ♠fxd2 b5 21 ♞xe4 fxe4 22 d5 bxc4 23 dxe6 ♟xe6 24 ♟d4 ♜fe8 25 ♜xc4 e3 26 ♜c7 ♟e5 27 ♟xe5 ♜xe5 28 ♜f7 ♡g8 29 ♠d7 a5 30 ♜e2 ♜c8 31 g3 ♜c6 32 ♡g2 ♠b6 33 h3 ♡f8 34 g4 h5 35 ♡g3 hxg4 36 hxg4 g5 37 ♠d3 ♜xb2 38 ♜xb2 e2 39 ♠b1 e1♟+ 40 ♜xe1 ♜xe1 41 ♡f3 ♜e5 42 ♠d7 ♡e8 43 ♜c7 ♡f8 44 a3 ♡e8 45 ♠b7 ♡f8 46 ♠d7 ♡e8 47 ♜c7 ♡d8 48 ♠b7 ♡e8 49 ♠a7 ½-½

Round 4
Vaxchess — Phoenix
A44/11 05 Nf3

1 d4 c5 2 d5 e5 3 e4 d6 4 ♖c3 g6 5 ♖f3 ♗g7 6 ♗g5 ♗f6 7 ♗e3 ♞e7 8 ♗b5+ ♠d7 9 O-O O-O 10 ♗h6 ♗g7 11 ♗xg7 ♡xg7 12 ♟d3 ♠b6 13 a4 f5 14 ♜fd1 fxe4 15 ♟xe4 a6 16 ♗f1 ♜f4 17 ♟d3 ♗f5 18 ♟d2 ♗g4 19 ♗e2 ♠b4 20 b3 h6 21 a5 ♠d7 22 h3 ♗xf3 23 ♗xf3 ♠d4 24 ♟e2 ♖f6 25 ♠d3 ♟d7 26 ♜e1 ♟c7 27 ♠a1 c4 28 bxc4 ♜xc4 29 ♠a3 ♜c5 30 ♟e3 ♜xa5 31 ♜xa5 ♟xa5 32 ♟d2 ♟a1+ 33 ♡h2 ♖f5 34 g4 ♠d4 35 ♖e2 ♖xf3+ 36 ♜xf3 a5 37 ♜c3 ♜f8 38 f4 ♖e4 39 ♜c7+ ♜f7 40 ♜xf7+ ♡xf7 41 ♟e3 ♟a4 42 fxe5 ♟xc2 43 e6+ ♡e7 44 ♡g1 ♟d1+ 45 ♡h2 ♟xd5 46 ♟xh6 ♟xe6 47 ♟g7+ ♟f7 48 ♟d4 ♟f3 49 ♟g7+ ♡d8 50 ♟g8+ ♡c7 51 ♟g7+ ♡b8 52 ♟h8+ ♡a7 53 ♟d4+ b6 54 ♟c4 ♟f2+ 55 ♡h1 ♟xe2 56 ♟xe2 ♠g3+ 57 ♡g2 ♖xe2 58 ♡f3 a4 59 ♡xe2 a3 60 ♡e3 0-1

Mephisto — Cyrus
D14/05 08 Bd3

1 d4 d5 2 c4 c6 3 cxd5 cxd5 4 ♖f3 ♖f6 5 ♖c3 ♖c6 6 ♗f4 ♗f5 7 e3 e6 8 ♗d3 ♗xd3 9 ♟xd3 ♖h5 10 ♗g5 f6 11 ♗h4 g5 12 ♗g3 g4 13 ♠d2 ♖xg3 14 hxg3 f5 15 a3 h5 16 ♖e2 ♟g5 17 ♖f4 ♜h6 18 ♟b5 O-O-O 19 ♜c1 ♗d6 20 ♖b3 a6 21 ♜xc6+ bxc6 22 ♟xc6+ ♡b8 23 ♖a5 ♟g7 24 ♟b6+ ♡c8 25 ♟xa6+ ♡d7 26 ♟b7+ ♗c7 27 ♟c6+ ♡c8 28 ♖xe6

♜xe6 29 ♟xe6+ ♠d7 30 ♟a6+ ♡d8 31 ♖c6+ ♡e8 32 ♟c8+ ♗d8 33 ♖e5 1-0

Recom — Novag
D34/16 11. Bb4

1 d4 ♖f6 2 g3 e6 3 ♗g2 d5 4 c4 c5 5 cxd5 exd5 6 ♖f3 ♖c6 7 ♖c3 ♗e7 8 O-O O-O 9 ♗g5 cxd4 10 ♞xd4 h6 11 ♗e3 ♗b4 12 ♟b3 ♗xc3 13 ♟xc3 ♗g4 14 ♜fd1 ♜c8 15 ♞xc6 ♜xc6 16 ♟d3 ♟e7 17 h3 ♗h5 18 ♠d2 ♖e4 19 ♗xe4 dxe4 20 ♟d5 ♗g6 21 ♗xa7 ♜fc8 22 ♠ad1 b6 23 ♟d7 ♟b4 24 ♠d6 ♠6c7 25 ♟g4 h5 26 ♟g5 ♜xa7 27 ♟e5 ♠a5 28 a3 ♜xe5 29 axb4 ♜c2 30 ♜xb6 ♜xe2 31 ♠b8+ ♡h7 32 ♠dd8 ♗f5 33 h4 ♜xb2 34 ♡f1 e3 0-1

Fidelity — Lachex
C80/03 07 Kh1

1 e4 e5 2 ♖f3 ♖c6 3 ♗b5 a6 4 ♗a4 ♖f6 5 d4 exd4 6 O-O ♖xe4 7 ♡h1 ♗c5 8 ♠bd2 ♖xd2 9 ♗xd2 O-O 10 ♗f4 ♜e8 11 ♖g5 ♟f6 12 ♟f3 d5 13 ♟g3 h6 14 ♖f3 ♗d6 15 ♗xd6 cxd6 16 ♠ad1 ♜e4 17 ♠d2 ♜f4 18 ♠de1 ♗e6 19 ♟a3 ♜xf2 20 ♟xd6 ♟e7 21 ♟xe7 ♜xf1+ 22 ♜xf1 ♖xe7 23 ♖f3 b5 24 ♗b3 a5 25 a4 bxa4 26 ♗xa4 ♖f5 27 ♠d1 ♠b8 28 ♠b1 ♠b4 29 b3 ♖e3 30 ♜c1 ♡f8 31 ♖e5 ♗f5 32 ♖c6 ♗xc2 33 ♖xb4 axb4 34 ♜e1 ♗e4 35 ♜e2 d3 36 ♠d2 ♖xg2 37 ♡g1 ♖e1 38 ♡f1 ♖f3 39 ♠a2 d2 40 ♡e2 f5 41 ♡d1 d4 42 ♗b5 ♗d5 43 ♗c4 ♗xc4 44 bxc4 g5 45 h3 ♡e8 46 ♠b2 g4 47 hxg4 fxg4 48 ♜xb4 g3 49 ♠b8+ ♡d7 50 ♠b1 g2 51 ♡e2 g1♟ 52 ♜xg1 ♖xg1+ 53 ♡xd2 h5 0-1

Bebe — Belle
C80/01 12 Nd3

1 e4 e5 2 ♖f3 ♖c6 3 ♗b5 a6 4 ♗a4 ♖f6 5 O-O ♖xe4 6 ♜e1 ♖c5 7 ♖xe5 ♗e7 8 ♗xc6 dxc6 9 d4 ♖e6 10 ♗e3 O-O 11 ♖c3 f6 12 ♠d3 ♜e8 13 ♟h5 g6 14 ♟a5 ♖xd4 15 ♗xd4 ♟xd4 16 ♟xc7 ♟d7 17 ♟xd7 ♗xd7 18 ♜e2 ♗d8 19 ♖c5 ♜xe2 20 ♖xe2 ♗c8 21 ♠d1 ♗e7 22 ♠d7 ♠a7 23 h3 ♡f7 24 b3 b5 25 ♖b6 ♗e6 26 ♖d4 ♠b7 27 ♖xe6 ♡xe6 28 ♜e1+ ♡f7 29 ♖c8 ♗c5 30 ♠d1 ♡e6 31 c3 a5 32 a3 ♗xa3 33 ♠a1 b4 34 cxb4 ♗xb4 35 ♠d1 ♗c5 36 ♜c1 ♠b5 37 g3 ♡d7 0-1

Challenger — Ostrich
B31/15 08. a6

1 e4 c5 2 ♘f3 ♘c6 3 ♘b5 g6 4 O-O ♘g7 5 c3 ♘f6 6 ♖e1 O-O 7 d4 cxd4 8 cxd4 a6 9 ♘d3 d6 10 ♘c3 ♘g4 11 ♘e3 ♘xf3 12 ♖xf3 ♘d7 13 d5 ♘b4 14 ♖e2 ♘xc3 15 bxc3 ♘xd3 16 ♖xd3 ♘e5 17 ♖d4 ♖d7 18 ♘f4 f6 19 ♖ab1 ♖f7 20 ♖b6 ♖c8 21 ♖eb1 ♖g4 22 ♘g3 ♖c4 23 ♖d2 ♖xe4 24 ♖xb7 ♘d7 25 ♖e1 ♖f5 26 f3 ♖c5 27 ♖d1 ♖c4 28 ♖h1 a5 29 ♖a7 ♖a4 30 ♖b2 ♘c5 31 ♖b8+ ♖f8 32 ♖c7 ♖c2 33 ♖xe7 ♖xd1+ 34 ♘e1 ♖xe1+ 35 ♖xe1 ♖xa2 36 h3 a4 37 ♖e7 1-0

Merlin — Chiptest
C02/01 05 Be3

1 e4 e6 2 d4 d5 3 e5 b6 4 c3 ♖d7 5 ♘e3 ♘c6 6 ♘d2 f6 7 ♘d3 ♖xe5 8 dxe5 ♘xe5 9 ♖h5+ ♘f7 10 ♘gf3 ♘f6 11 ♖h4 e5 12 ♘g5 e4 13 ♘xf7 ♖xf7 14 ♘b5+ ♘d7 15 ♘d7+ ♖xd7 16 ♘g5 ♘e7 17 ♘xf6 ♘xf6 18 ♖h5+ g6 19 ♖e2 O-O 20 ♖e3 ♖a4 21 O-O ♖c2 22 ♖ab1 ♖ae8 23 ♘b3 ♖e5 24 ♖fc1 ♖d3 25 ♖xd3 exd3 26 ♘d4 c5 27 ♘b5 ♖e2 28 ♖e1 ♖f7 29 ♖xe2 dxe2 30 ♖e1 ♖e7 31 a4 d4 32 cxd4 cxd4 33 ♘a3 d3 34 ♘b1 ♘g5 35 f4 ♘xf4 36 g3 ♘e3+ 37 ♖g2 ♖f7 38 ♘c3 ♖f2+ 39 ♖h3 d2 40 ♖xe2 ♖xe2 41 a5 bxa5 0-1

Waycool — Rex
B03/03 05. N8d7

1 e4 ♘f6 2 e5 ♘d5 3 d4 d6 4 c4 ♘b6 5 exd6 ♘d7 6 dxe7 ♖xe7+ 7 ♖e2 c5 8 ♘f3 cxd4 9 ♖xe7+ ♘xe7 10 b3 ♘b4+ 11 ♘d2 ♘c5 12 b4 ♘d6 13 a4 O-O 14 a5 ♖e8+ 15 ♖d1 ♘xc4 16 ♘xc4 ♘e5 17 ♖e1 ♖f8 18 ♘g5 h6 19 ♘xf7 ♘xh2 20 ♖xe8+ ♖xe8 21 ♘a3 ♘e5 22 ♘d6+ ♖e7 23 ♘xc8+ ♖xc8 24 ♘d5 ♖c7 25 ♘b5 ♖d7 26 ♘a2 a6 27 ♘a3 ♘g4 28 ♘g5+ hxg5 29 ♖e1 ♘g1 30 f3 ♘e3 31 ♖d2 ♘f2 32 g4 g6 33 ♖h1 ♖f6 34 ♖h8 d3 35 ♖f8+ ♖e5 36 ♘c4+ ♖d4 37 ♘b6 ♘f1+ 38 ♖d1 ♖d6 39 ♖g8 ♘e3+ 40 ♖d2 ♘c2 41 ♘c8 ♘e1+ 42 ♖d1 ♘xb4 43 ♖e8 ♘e3+ 44 ♖xe3 ♖xe3 45 ♘xd6 ♘xd6 46 ♘d5 ♘b4 47 ♘e4 ½-½

Round 5
Chiptest — Recom
A44/11 05 Nf3

1 d4 c5 2 d5 e5 3 e4 d6 4 ♘c3 g6 5 ♘f3 ♘g7 6 ♘g5 ♘f6 7 ♘e3 ♘e7 8 ♘b5+ ♘d7 9 O-O O-O 10 ♘h6 ♘g7 11 ♘xg7 ♖xg7 12 ♖d3 ♘b6 13 a4 f5 14 ♖fd1 ♖xe4 15 ♖xe4 a6 16 ♘f1 ♖f4 17 ♖d3 ♘f5 18 ♖d2 ♘g4 19 ♘e2 ♖b4 20 b3 h6 21 a5 ♘d7 22 h3 ♘xf3 23

♘xf3 ♖d4 24 ♖e2 ♘f6 25 ♖d3 ♖d7 26 ♖e1 ♖c7 27 ♖a1 c4 28 bxc4 ♖xc4 29 ♖a3 ♖c5 30 ♖e3 ♖xa5 31 ♖xa5 ♖xa5 32 ♖d2 ♖a1+ 33 ♖h2 ♘f5 34 g4 ♘d4 35 ♘e2 ♘xf3+ 36 ♖xf3 a5 37 ♖c3 ♖f8 38 f4 ♘e4 39 ♖c7+ ♖f7 40 ♖xf7+ ♖xf7 41 ♖e3 ♖a4 42 ♖xe5 ♖xc2 43 e6+ ♖e7 44 ♖g1 ♖d1+ 45 ♖h2 ♖xd5 46 ♖xh6 ♖xe6 47 ♖g7+ ♖f7 48 ♖d4 ♖f3 49 ♖g7+ ♖d8 50 ♖g8+ ♖c7 51 ♖g7+ ♖b8 52 ♖h8+ ♖a7 53 ♖d4+ b6 54 ♖c4 ♖f2+ 55 ♖h1 ♖xe2 56 ♖xe2 ♘g3+ 57 ♖g2 ♘xe2 58 ♖f3 a4 59 ♖xe2 a3 60 ♖e3 ½-½

Phoenix — Fidelity
D00/05 04. Bd6

1 d4 ♘f6 2 ♘g5 d5 3 ♘xf6 exf6 4 e3 ♘d6 5 c4 dxc4 6 ♘xc4 c5 7 dxc5 ♖a5+ 8 ♘d2 ♘xc5 9 ♘gf3 ♘c6 10 O-O ♘e5 11 ♘xe5 ♖xe5 12 ♘b3 ♖c7 13 ♘b5+ ♖e7 14 ♖c1 b6 15 ♘xc5 bxc5 16 b4 ♖d6 17 ♖xd6+ ♖xd6 18 ♖fd1+ ♖e7 19 ♖xc5 ♘e6 20 ♖xe5 ♖f6 21 f4 ♘xa2 22 ♖d6+ ♘e6 23 ♖f2 ♖hc8 24 ♖c5 ♖ab8 25 ♘d3 g6 26 e4 ♖e7 27 e5 f6 28 ♖a6 ♖xb4 29 ♖xe6+ ♖xe6 30 ♖xc8 ♖xf4+ 31 ♖e3 ♖xe5 32 ♖c6+ ♖d5 33 ♖a6 ♖f7 34 ♘e4+ ♖c5 35 ♖c6+ ♖b4 36 ♖e6 a5 37 ♖xe5 ♖c7 38 ♘f3 ♖d7 39 ♖e4+ ♖b3 40 ♖d4 ♖xd4 41 ♖xd4 a4 42 ♘d1+ ♖b4 43 ♖d3 h6 44 ♖c2 a3 45 ♖b1 ♖c3 46 ♖a2 h5 47 ♘b3 g5 48 ♖xa3 h4 49 h3 ♖d3 50 ♖b4 ♖d4 51 ♖b5 ♖e4 52 ♘c2+ ♖d5 53 ♘d1 ♖d6 54 ♘f3 ♖e6 55 ♖c6 ♖e5 56 ♘g4 ♖f4 57 ♖d6 ♖g3 58 ♘f3 1-0

Cyrus — Ostrich
B22/01 02. b6

1 e4 c5 2 c3 b6 3 d4 ♘b7 4 ♘d3 cxd4 5 cxd4 ♘f6 6 ♘c3 e6 7 ♘e3 ♘b4 8 f3 ♘xc3+ 9 bxc3 ♖e7 10 ♘e2 d5 11 e5 ♘f7 12 ♖a4 ♖h4+ 13 g3 ♖h5 14 O-O g5 15 f4 h6 16 ♖ad1 a6 17 ♖a3 ♘c6 18 f5 exf5 19 ♖xf5 ♘e7 20 ♖f2 ♖h3 21 ♖df1 ♖f8 22 ♖f3 ♘c6 23 ♖h1 a5 24 ♖d6 b5 25 ♖c7 a4 26 a3 ♖g4 27 ♖d6 ♖h3 28 ♖f2 ♖h5 29 ♖f6 ♖h3 30 ♘g1 ♖g4 31 ♖xh6 ♘b8 32 ♘h3 ♘c8 33 ♖c5 ♘e7 34 ♘xg5 ♖d7 35 ♘xe7 ♘a6 36 ♖xc6 ♖xc6 37 ♖xc6 ♖xe7 38 ♘xb5 ♘b8 39 ♖c5 ♖a7 40 ♖xd5 ♖b7 41 c4 1-0

Belle — Challenger
B39/04 17 Rad1

1 e4 c5 2 ♘f3 ♘c6 3 d4 cxd4 4 ♘xd4 g6 5 c4 ♘g7 6 ♘e3 ♘f6 7 ♘c3 ♘g4 8 ♖xg4

♖xd4 9 ♗d1 e5 10 ♘b5 O-O 11 ♗d2 ♗h4
 12 ♘d3 d5 13 cxd5 ♘xb5 14 ♘xb5 ♗xe4 15
 O-O ♗d8 16 d6 ♘e6 17 ♗ad1 ♘a2 18 ♘g5
 f6 19 ♘e3 ♘b3 20 ♗d3 ♗xd3 21 ♗xd3 ♘e6
 22 ♗a1 a6 23 d7 ♗f8 24 ♘a4 e4 25 ♗d2 b5
 26 ♘x05 axb5 27 ♗xa8 ♗xa8 28 d8♗+ ♗xd8
 29 ♗xd8+ ♗f7 30 ♗b8 ♘d7 31 ♘d4 h5 32
 h4 ♘e8 33 ♗b7+ ♗f8 34 ♗h2 ♘h8 35 ♗g3
 ♘g7 36 ♘c3 e3 37 fx3 ♗g8 38 e4 ♘c6 39
 ♗b6 ♘e4 40 ♘xf6 ♘xf6 41 ♗xf6 ♗g7 42
 ♗b6 ♘d3 43 b3 ♘e2 44 ♗d6 ♗f7 45 ♗f4
 ♘g4 46 ♗d5 b4 47 ♗b5 ♘e6 48 ♗xb4 ♗f6
 49 g3 ♘f7 50 ♗b6+ ♗e7 51 ♗e5 1-0

Merlin — Waycool
 B22/09 14 Ne2

1 e4 c5 2 c3 ♘f6 3 e5 ♘d5 4 d4 cxd4 5 ♘f3
 ♘c6 6 cxd4 d6 7 ♘c4 ♘b6 8 ♘b5 d5 9 ♘c3
 ♘g4 10 h3 ♘xf3 11 ♗xf3 e6 12 O-O ♘e7 13
 ♗g3 ♗f8 14 ♘e2 ♗c8 15 ♘f4 ♘b4 16 ♘d2
 ♘c2 17 ♗ac1 a6 18 ♘d3 ♘b4 19 ♗xc8 ♗xc8
 20 ♗c1 ♘c4 21 b3 ♘a2 22 ♗c2 b5 23 ♗a2
 ♘xd2 24 ♗xd2 ♗g8 25 ♗c2 ♗a8 26 ♘f4
 ♗d8 27 ♘h5 g6 28 ♗c6 ♗a8 29 ♗c7 ♗d8
 30 ♗a7 ♗f8 31 ♘f6 ♘xf6 32 exf6 ♗xf6 33
 ♗d6+ ♗g7 34 ♗c5 ♗f4 35 ♗a6 e5 36 dx5
 ♗xe5 37 ♘xb5 ♗b8 38 b4 ♗el+ 39 ♗h2
 ♗e4 40 ♗a7 ♗e5+ 41 g3 ♗f6 42 ♗g2 ♗b6
 43 ♗xb6 ♗xb6 44 ♗a5 d4 45 ♗f3 f5 46 ♗e2
 h5 47 ♗d3 ♗d6 48 ♗a6 ♗d8 49 ♘c4 g5 50
 ♗a7+ ♗f6 51 ♗f7+ ♗g6 52 b5 h4 53 b6
 hxg3 54 fxg3 f4 1-0

Lachex — Bebe
 B22/17 06. Bd7

1 e4 c5 2 c3 d5 3 exd5 ♗xd5 4 d4 e6 5 ♘f3
 ♘c6 6 ♘a3 ♘d7 7 ♘c4 ♗e4+ 8 ♗e2 ♗xe2+
 9 ♘xe2 cxd4 10 ♘b5 O-O-O 11 cxd4 ♘b4+
 12 ♘c3 ♘e8 13 ♘e3 ♘ge7 14 O-O ♘g6 15
 ♗ad1 ♗b8 16 a3 ♘d6 17 d5 exd5 18 ♗xd5
 ♘f4 19 ♗xd6 ♘xe2+ 20 ♘e2 ♗xd6 21 ♘f4
 ♗c8 22 ♘xd6 ♘d7 23 ♗c1 ♘g4 24 ♘ed4
 ♘f3 25 gxf3 ♗d7 26 ♘xc6 bxc6 27 ♗d1
 ♗c8 28 ♘f4 ♗d8 29 ♗xd8+ ♗xd8 30 b4 a6
 31 ♗f1 ♗e7 32 ♗e2 ♗e6 33 ♗d3 ♗d5 34
 ♘e3 g6 35 a4 h5 36 h4 f6 37 f4 f5 38 ♘b6
 ♗e6 39 ♗c4 ♗d6 40 f3 1-0

Novag — Mephisto
 B14/09 06. Bb4

1 e4 c6 2 d4 d5 3 exd5 cxd5 4 c4 ♘f6 5 ♘c3
 e6 6 ♘f3 ♘b4 7 ♘d2 O-O 8 ♘d3 dxc4 9
 ♘xc4 ♘c6 10 a3 ♘e7 11 ♘f4 ♘d6 12 ♘xd6

♗xd6 13 O-O ♗d8 14 ♘b5 ♗e7 15 ♗c1 a6
 16 ♘c3 ♗d6 17 ♘e2 b6 18 ♗c2 ♘b7 19
 ♗fe1 ♘a5 20 ♘e5 ♗ac8 21 ♗a4 ♘xc4 22
 ♘xc4 ♗d5 23 ♘e3 ♗g5 24 ♗xc8 ♗xc8 25
 ♗c1 ♗xc1+ 26 ♘xc1 ♗f4 27 ♘e2 ♗d6 28
 ♗c4 ♗f8 29 h3 h6 30 ♗d3 h5 31 ♘c3 b5 32
 b4 ♗e7 33 ♗e2 g6 34 ♗d2 ♗c7 35 ♗c2
 ♗c6 36 ♗d3 ♗f8 37 ♗f1 ♗c7 38 ♗g1
 ♗d6 39 ♗d2 ♗g7 40 ♗d3 1-0

Rex — Vaxchess
 B22/15 05. Nf6

1 e4 c5 2 c3 d5 3 exd5 ♗xd5 4 d4 e6 5 ♘f3
 ♘f6 6 ♘a3 ♘c6 7 ♘b5 ♘d6 8 dxc5 ♗xd1+
 9 ♗xd1 ♘b8 10 ♘e3 O-O 11 ♗c1 a6 12
 ♘bd4 ♘d7 13 ♘c4 ♘xd4 14 cxd4 ♘c6 15 h3
 ♘xf3 16 gxf3 ♗d8 17 ♗e1 ♗f8 18 h4 ♘h2 19
 h5 b5 20 cxb6 ♗ac8 21 b3 h6 22 ♗b2 ♘d6
 23 ♘xa6 ♗c6 24 ♘c4 ♗xb6 25 ♗h1 ♗c8 26
 ♗ac1 ♗a8 27 ♗b1 ♗bb8 28 ♘d2 ♗a4 29
 ♗c2 ♗a3 30 f4 ♘e4 31 ♘c1 ♗a5 32 ♘e3 ♘f6
 33 ♘e2 ♘d5 34 ♗h4 ♘b4 35 ♘c4 ♘e7 36
 ♗h1 ♘f6 37 ♘e2 ♘d6 38 ♗c6 ♘e7 39 ♗hc1
 ♗d8 40 ♗c8 ♘xh5 41 ♗1c7 ♘f6 42 ♘c4 ♘e8
 43 ♗xd8 ♘xd8 44 ♗c8 ♗e7 45 ♘d2 ♗h5 46
 a4 ♘b6 47 ♘e3 ♘d6 48 ♗c6 ♘a5 49 ♗c5
 ♗xc5 50 dxc5 ♘xc4 51 bxc4 h5 52 ♗b2 h4
 53 f3 h3 54 ♘g1 ♘d2 55 ♘h2 ♗d7 56 f5
 exf5 57 ♗b3 ♘e3 58 ♗b4 ♗c6 59 ♗c3 ♘xc5
 60 a5 g5 61 ♗b3 g4 62 fxg4 ♘d6 63 ♘g1
 fxg4 64 a6 h2 65 ♘xh2 ♘xh2 0-1

MEETING REPORT

Belle and Mephisto Dallas Capture Computer Chess Titles at the FJCC

Danny Kopec *San Diego State University*

Monty Newborn *McGill University*



BELLE, a computer program developed by Ken Thompson and Joseph Condon of AT&T Bell Laboratories, captured first-place in this year's Seventeenth North American Computer Chess Championship and MEPHISTO DALLAS, developed by Richard Lang took first-place honors at the Sixth World Microcomputer Chess Championship.

The two major computer chess championships were held at the ACM/IEEE Computer Society's Fall Joint Computer Conference in Dallas. The ACM's NACCC was held in the Anatole Hotel and the WMCC took place in the Dallas Infomart. The two tournaments together made this the world's largest computer chess event: a total of 40 games in the NACCC and 49 games in the WMCC were played for a total of 89 games over a six day period. The WMCC took place during the days, while the evenings were devoted to the ACM's NACCC. Some programs participated in both tournaments.

Chess trees averaging 1,000,000 positions were searched on each move. With games lasting an average of fifty moves, a total of approximately $50 \times 2 \times 1,000,000 \times (40 + 49) = 890,000,000,000$ chess positions were searched by the programs during the course of the approximately 8900 moves played, making this event one of the great experimental efforts in computer science. Robert Tarjan, when receiving the Turing Award at the conference, noted the need for more such experimental work to complement the efforts being made in the theoretical analysis of complex algorithms.

The Seventeenth North American Computer Chess Championship

Ken Thompson and Joe Condon's BELLE came out of retirement and won all five of its games to capture first place at the NACCC's tournament. All games went to the endgame where BELLE outplayed its opponents, even in positions where it was behind in material. It is not clear how much the program was either improved, or had bugs eliminated which hurt it in tournaments in 1983-4. Thompson and Condon spent little time working on BELLE over the last two years. Thompson, in particular, devoted his energies instead to developing databases for chess endgames such as KQ vs. KR, KBB

vs. KN, KQP vs. KO, etc. His findings have surprised the chess world and have forced FIDE, the world's governing chess organization to change the rules of chess.

Thompson, an avid pilot, flew to the conference from his home base at AT&T Bell Laboratories in Murray Hill, New Jersey. He simply planned to enjoy watching the event. But at the urging of the other participants, he entered BELLE at the last minute when CRAY BLITZ withdrew because it was unable to get computer time. Earlier in the year, CRAY BLITZ won the Fifth World Computer Chess Championship in Cologne, West Germany. HI TECH, the winner of last year's ACM tournament, also skipped this year's event. Hans Berliner, preoccupied with making major revisions in his HI TECH program, passed up this year's tournament. Thus, the showdown expected between CRAY BLITZ and HI TECH failed to materialize, but BELLE's excellent play made one almost forget their absence.

BELLE won the \$2000 first place prize, the winner's trophy, and possession for the year of the CDC Plaque. Finishing in second place was LACHEX, the work of Burt Wendroff and Tony Warnock of Los Alamos National Laboratory. Third place went to David Kittinger's program, NOVAG EXPERIMENTAL.

A total of sixteen teams participated, including entries from Canada, England, Holland, West Germany, Denmark, and the United States; all used computers located in North America. Four multiprocessing systems participated: PHOENIX used 20 SUN-3 workstations located at SUN Microsystems, in Mountain View, Calif., FIDELITY EXPERIMENTAL used 28 6502's and one Z-80. OSTRICH ran on an 8-processor Data General system, and WAYCOOL, a new program developed at Cal Tech, used a 128-processor N-cube. Three programs, BELLE, BEBE, and CHIPTEST, took advantage of specially designed circuitry that generated moves and scored positions at high speeds. Six entries used single microprocessors. At the other extreme, LACHEX used a Cray X/MP.

The Sixth World Microcomputer Chess Championship

The level of play at this year's microcomputer chess championships was very strong, approximately equivalent to that of the NACCC just a few years ago. MEPHISTO DALLAS 3 captured the \$2000 first place prize, winning six of seven points. Fidelity International's FIDELITY "2533" won the runner-up position with a score of five and one half points. MEPHISTO DALLAS 2 was third with five and one half points.

1987 TOURNAMENT RESULTS

ACM's Seventeenth North American Computer Chess Championship

	1	2	3	4	5	total
1 BELLE	15+■	2+□	6+■	4+■	7+□	5
2 LACHEX	9+□	1-■	13+□	10+■	4+□	4
3 NOVAG	7-□	16+■	12=□	8+■	6+□	3½
4 BEBE	11+□	12+■	8+■	1-□	2-■	3
5 PHOENIX	8-□	9-■	15+□	13+■	10+□	3
6 MEPHISTO	13+□	10=■	1-□	9+□	3-■	2½
7 CHALLENGER	3+■	8-□	9=■	14+□	1-■	2½
8 RECOM	5+■	7+■	4-□	3-□	11=■	2½
9 CYRUS	2-■	5+□	7=□	6-■	14+□	2½
10 FIDELITY	16+■	6=□	14+■	2-□	5-■	2½
11 CHIPTEST	4-■	14-□	16+□	12+■	8=□	2½
12 MERLIN	14=■	4-□	3=■	11-□	15+□	2
13 VAXCHESS	6-■	15+□	2-■	5-□	16+■	2
14 OSTRICH	12=□	11+■	10-□	7-■	9-■	1½
15 WAYCOOL	1-□	13-■	5-■	16=□	12-■	½
16 REX	10-□	3-□	11-■	15=■	13-□	½

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	1	2	3	4	5	6	7	total
1 MEPHISTO 3	11+■	7+□	4+□	2+■	8+□	9+■	6-□	6
2 FIDELITY A	14+□	3+■	5+■	1-□	6=■	8+□	12-■	5½
3 MEPHISTO 2	10+□	2-□	6=■	11+■	7=□	13+■	4+■	5
4 FIDELITY C	9+□	6+□	1-■	8=■	5+□	12+■	3-□	4½
5 MEPHISTO 1	8+□	10+■	2-□	7+□	4-■	11+■	9=□	4½
6 RECOM A	12+□	4-■	3=□	10+■	2=□	7-■	1+■	4
7 FIDELITY B	13+□	1-■	12+□	5-■	3=■	6+□	10-□	3½
8 RECOM C	5-■	14+□	11+■	4=□	1-■	2-■	13+□	3½
9 RECOM B	4-■	11-□	14+■	12+■	10+□	1-□	5=■	3½
10 CYRUS B	3-■	5-□	13+■	6-□	9-■	14+□	7+■	3
11 CYRUS A	1-□	9+■	8-□	3-□	13=■	5-□	14+■	2½
12 CYRUS C	6-■	13+□	7-■	9-□	14+■	4-□	2-□	2
13 CHESS MONSTER	7-■	12-■	10-□	14+■	11=□	3-□	8-■	1½
14 KEMPELEN	2-■	8-■	9-□	13-□	12-□	10-■	11-□	0

Computing System Information ACM's
Seventeenth North American Computer Chess Championship

Program	Computing system and language	Book	Nodes per second
BEBE	SYS-10 Chess Engine*, assembler, 65Kb, 16 bits, 10 mips. (Tony Scherzer, Linda Scherzer)	4K	40K
BELLE	PDP 11/23 with special chess circuitry, at AT&T Bell Laboratories, Murray Hill, New Jersey. (Ken Thompson, Joe Condon)	400K	150K
CHESS CHALLENGER EXPERIMENTAL	28 6502-based microprocessors controlled by a Z-80. (Ron Nelson, Dan Spracklen, Kathe Spracklen, Danny Kopec, Boris Baczynskyj)	16K+	NA
CHIPTTEST	SUN 3 plus high speed move generator, assembler, at Carnegie-Mellon Univ. (Thomas Anantharam, Feng-hsiung Hsu)	NA	150K
CYRUS 68K	68020-based microcomputer*, assembler. (Mark Taylor, David Levy, Kevin O'Connell)	16K	4K
FIDELITY EXPERIMENTAL	68020-based microcomputer*, assembler. (Dan Spracklen, Kathe Spracklen, Danny Kopec)	30K	NA
LACHEX	Cray X-MP 48, Fortran and assembler, at Cray Research, Chippewa Falls, Minnesota. (Tony Warnock, Burt Wendroff)	4K	50K
MEPHISTO MOTOROLA	68020-based microcomputer*, assembler, 64 Kb RAM, 32 bits, 4 mips. (Richard Lang)	NA	NA
MERLIN	IBM 3081, Pascal, 12 mips, at IBM Dallas. (Hermann Kaindl, Marcus Wagner, and Helmut Horacek)	6K	0.6K
NOVAG EXPERT EXPERIMENTAL	6502-based microcomputer*, assembler, 56 Kb ROM. (David Kittinger)	22K+	2-3K
OSTRICH	8 DG computers: 1 Eclipse S/120, 6 Nova 4's, 1 Nova 3, on high speed DMA bus, 64 Kb/computer, 16 bits, 1mips/computer. at McGill University. (Monty Newborn)	4K+	2K
RECOM-REBEL 87	6502 gate array processor*, assembler. (Ed Schroder)	NA	NA
REX III	Intel 80286-based microcomputer*, Pascal. (Don Dailey)	0.1K+	0.3K
SUN PHOENIX	20 SUN 3 Workstations, C, at SUN Microsystems, Mountain View, California. (Jonathan Schaeffer, Marius Olafsson)	0.8K	20K
VAXCHESS	Microvax 2*, C + assembler. (Tony Guifoyle, Richard Hooker)	14K	1K
WAYCOOL	N-cube (128 processors @ 128Kb/proc., 1 mips/proc), at Cal Tech. (Ed Felton, Rod Morrison, Steve Otto)	15K	14K

* Computer was at site.

A total of fourteen teams representing six commercial concerns participated in the seven round Sixth World Microcomputer Chess Championship. This included three entries from Hegener and Glaser AG of West Germany, which used a program developed by Richard Lang, three from Fidelity International, Inc., of Miami, Florida (Dan Spracklen, Kathe Spracklen, Ron Nelson, with book openings by Danny Kopec and Boris Baczynskyj), three from E. G. H. Schroeder of The

Netherlands, three from Intelligent Chess Software Ltd., of London, England, and one each from Enlightenment, Inc., of the United States, and Andromeda Software, Inc., of the United States. The program used by Andromeda Software was developed in Hungary by Gyula Horvath. There was a limit of three entries from any single commercial concern.

The Dallas chess club provided assistance during the tournament. Glenn Sharpe and Kermit Poulas helped

Computing System Information
Sixth World Microcomputer Chess Championship

Program	Computing system	Organization
ATARI KEMPELEN	Atari ST, 68000-based microcomputer	Andromeda Software, Inc.
CHESS MONSTER	IBM PC, 8086-based microcomputer	Enlightenment, Inc.
CYRUS 68K A	68020-based microcomputer	Intelligent Chess Software Ltd.
CYRUS 68K B	"	"
CYRUS 68K C	"	"
FIDELITY "2533" A	68020-based chess machine	Fidelity International Inc.
FIDELITY "2533" B	"	"
FIDELITY "2533" C	"	"
MEPHISTO DALLAS 1	68020-based chess machine	Hegener and Glaser
MEPHISTO DALLAS 2	"	"
MEPHISTO DALLAS 3	"	"
RECOM-DEVENTER A	6502-based microcomputer	E. Schroder
RECOM-DEVENTER B	"	"
RECOM-DEVENTER C	"	"

with local arrangements. Mike Valvo served as tournament director for both events and Tony Marsland acted as assistant director.

Data on the participants in both tournaments, the results of both tournaments, as well as other major tournaments in past years, are given following the presentation of some of BELLE's play.

Next Year

The eighteenth NACCC will be held next year at the

FJCC. Plans are for a four round event, with the first two rounds on Sunday, October 25, one on Monday, October 26, with the final round on Tuesday, October 27. The winning entry will receive a \$2000 prize. Tony Marsland will be the moderator at a technical session. For further information or application forms, please write to Monty Newborn, School of Computer Science, McGill University, 805 Sherbrooke Street West, Montreal, Quebec, Canada H3A 2K6 (514-398-7979).

BELLE

In winning the tournament with a perfect 5-0 score, BELLE played three particularly interesting games. Below, we annotate fully its game with runner-up LACHEX, and present two endgames which BELLE won from seemingly inferior positions or material deficits.

Round 5 ACM's Seventeenth NACCC

BELLE versus LACHEX C24/05 04.Bb4

1. e4 e5 2. Bc4 Nf6 3. d4
BELLE's second move defined the Bishop's Opening which usually leads to tamer play in modern tournament practice. Recent practitioners, including grandmasters Nunn and Larsen, prefer a slow central and a queen-side buildup for White with 3. d3, 4. Nf3, O-O, c3, followed by d4 or b4. Instead with the text move BELLE enters

an open game, which nonetheless should not lead to any advantage for White.

3. ... exd4 4. Nf3 Bb4+?!
This move takes the game out of theory, and is inferior because White can now force play. Normal here are 4 ... d5 and 4 ... Nxe4. A continuation after the former move leading to equality according to the Encyclopedia of Chess Openings, Vol C/col. 24, pg. 130, is: 4. ... d5 5. exd5 Bb4+ 6. c3 Qe7+ 7. Kf1 dxc3 8. Nxc3 O-O 9. Bg5 h6 10. Bh4 Bf5 11. Qxd4 Nbd7 which occurred in Estrin-Vataikov, USSR, 1961.
5. c3 dxc3 6. bxc3 Bc5 7. e5 Qe7 8. Be3!?

A clever move, but not the best. Black would be hard pressed after simply 8. O-O; then on 8. ... Ne4 9. Bd5 (or 9. Qd3) would be strong for White; on 8. ... Ng4 9. Bg5; finally on 8. ... Ng8 9. Bg5 is still very strong. Underlying BELLE's choice, (and probably most com-

puter programs in this position) is the chance for Black to make the trade of B+N for R+2p's, after the suggested 8. O-O Ne4 9. Bd5 Nxf2 10. Rxf2 Bxf2+ 11. Kxf2, but more than 100 years of tournament praxis by humans have demonstrated this to be a poor trade in such positions.

8. ... Ne4
Not 8. ... Bxe3? 9. exd6 winning for White.

9. Qd3 Bxe3 10. Qxe3 Nc5
11. O-O O-O 12. Rd1

For the pawn deficit, White enjoys some space. The text prevents the liberating ... d6.

12. ... Nc6 13. Bd5!
This move continues to apply pressure, and takes the sting out of 13. ... Re8.

13. ... b6 14. Nd4 Bb7 15. Bxc6 dxc6?

A poor choice, as the B/b7 never comes to life.

16. Nf5 Qe6 17. Nd4

Now 17. Qg5 g6 18. Nh6+ Kh8

19. Ng4 looks like a promising attacking continuation for White. A key question here is, would BELLE have settled for a draw after 17... Qe7 18. Nf5 etc.?

17. Qg6 18. f4 Qe4 19. Qg3 Ne6 20. Nxe6 fxe6 21. Rd7

White finally finds some semblance of an attack. Black's best bet here is 21... g6 with counterplay on f4.

21... Rf7 22. Rxf7 Kxf7 23. Nd2 White keeps an initiative just sufficient to pose Black with continuous problems. Given a free move or two, Black would quickly win with ... c5 and ... Rd8.

23... Qe2 24. Nf3 Qe3+

25. Kh1 Kg8 26. Rd1! (Figure 1) Bringing White's last piece into the attack by seizing the only open file. White threatens to win: 27. Rd7 Rf7 28. Rxf7 Kxf7?? 29. Ng5+ wins for White, but Black's best defense may entail this line with 28... Qc1+! 29. Ng1 Kxf7. The intermediary check with 28. Rd8+ Rf8 29. Rd7 extending the variation to 10 ply may have caused LACHEX's search to miss this defense.

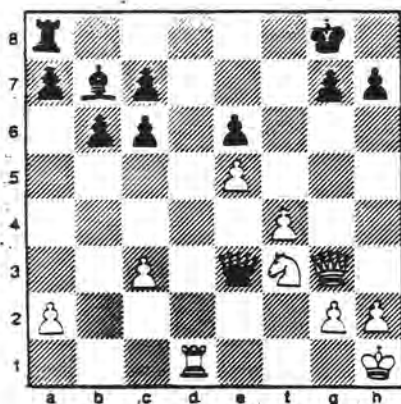


FIGURE 1. Position after 26! Rd1!

26... Kh8 27. Rd7 Rg8 28. Rxc7. BELLE finally recoups the pawn sacrificed in the opening.

28... Ba8 29. Ng1!

White eliminates Black's only active piece, solves the back rank problem, and prepares for the endgame.

29... Qxg3 30. hxg3 c5

31. Rxa7 h6 32. Ra6 Rb8 33. Kh2 h5?

This eases White's technical problems by weakening g5. Indicated is 33... Bd5.

34. Nf3 Be4 35. Ng5 Bd5 36. a4 Bc4 37. Ra7 Kg8 38. a5 bxa5 39. Rxa5 Rc8 40. Ne4 Bd5 41. Rxc5 Rxc5 42. Nxc5 Kf7 43. Kh3 Ke7 44. Nd3 Kd7 45. Kh4 g6 46. Kg5 Ke7 47. Nb4 Be4 48. c4 Kd7 49. c5 Kc7 50. Kf6 Bf5 51. Ke7 Bg4 52. Nc2 Kc6 53. Nd4+ Kxc5 54. Nxe6+ 1-0.

Round 4: ACM's NACCC
BEBE versus BELLE

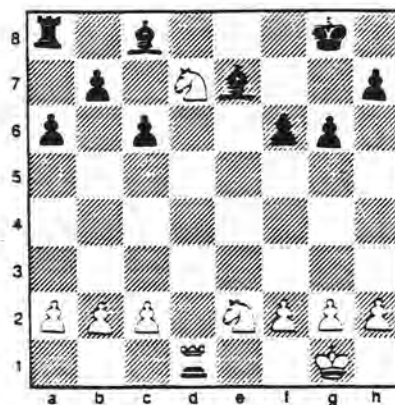


FIGURE 2. Position with Black to play on move 22

In this critical 4th Round game, BELLE (Black) played 22... Ra7? instead of 22... Bxd7 23. Rxd7 Rd8! forcing the theoretically favorable ending of bishop vs. knight with pawns on both sides of the board.

White misses a golden opportunity to punish the error on Black's previous move, and prevent the extrication of Black's rook with 23. Nb6! Black's only viable continuation is then 23... Bg4 (if 23... Be6? 24. Nd4 Kf7 [24... Bg4 25. f3 Bc5 26. Na4Bxd4+ 27. Rxd4 Bf5 etc. is probably Black's best; 24... Bxa2? 25. Nc8 wins] 25. Nxe6 Kxe6 26. Nc8! wins) 24. Rd2 Bc5 25. Nd7 (or 25. Na4) and Black has still not succeeded in extricating his rook.

Play continued: 23. h3? Kf7 24. b3 b5 25. Nb6 Be6 26. Nd4 Rb7 27. Nxe6 Kxe6 28. Re1+ Kf7 29. Nc8 Bc5 30. Rd1 Ee6 31. c3 a5 when White soon had to resign.

Round 5: ACM's NACCC
BELLE versus CHALLENGER

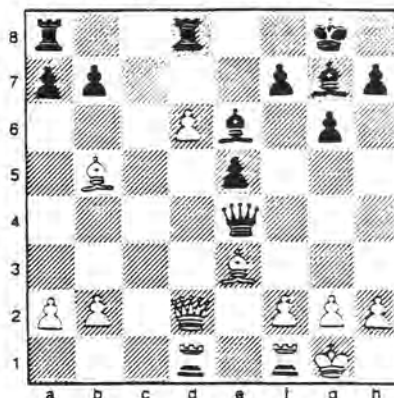


FIGURE 3. Position with Black to play on move 17

The diagrammed position at Black's seventeenth move is a critical one from the BELLE (W) vs. CHALLENGER (B) encounter. It is important to note that in this position the Black queen is threatened by 18. f3 Qf5 19. g4 Qf6 20. Bg5. The text move 17... Bxa2 steals a pawn and at the same time frees the square e6 for the Black queen. Play continued: 18. Bg5 f6 19. Be3 Bb3 20. Qd3 Qxd3 21. Rxd3 Be6 22. Ra1! whereby BELLE went on to win the ending by demonstrating the power of the advanced passed d-pawn which cost Black an exchange (rook for bishop). It is difficult to suggest an improvement for Black here over 22... a6 as played.

23. d7! Kf8 24. Ba4 e4 25. Rd2 b5? Here CHALLENGER should play 25... Bc4 with good chances to win the P/d7 eventually and/or shut out the R/d2 with ... Bd3. A sample continuation could now go: 26. Bc5+ Kf7 27. Rd4 b5 (or 27. Bb6 Bd3 28. Bb3+ Ke7 etc.; or 28. Bd8 Rxd8 with excellent chances for full equality for Black).

26. Bxb5 axb5 27. Rxa8 Rxa8 28. d8 = Q+ Rxd8 29. Rxd8 + Kf7 30. Rb8 Bd7?

A passive move which contributes to Black's downfall; better is 30... Bc4 with some drawing chances. 31. Bd4! h5 32. h4 Be8 Black gradually runs out of moves. BELLE went on to win the ending and the tournament with a perfect score of 5-0.

