SECTION 5 - PROGRAM INFORMATION

5.a - Statistics

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Publisher: **CDS Software Ltd.,** Silver House, Silver St., Doncaster, England.

Language: 6502 assembly

Code size: 22K

Data size: 5K

Positions examined per second: 300 (average)

Estimated Rating: 1850+ ELO (156+ BCF)

5.b - Openings book

Colossus has an openings 'book' of about 3000 positions, which it uses to play the first few moves of the game quickly and accurately. Lines vary from 2 ply to 17 ply deep. When there is a choice of book moves at any position, Colossus will choose between them at random, with a slight bias towards the moves which Colossus itself considers best. The 'book is stored on the master disc and so if Colossus tries to examine the 'book', but you have removed the disc, then you will be prompted to re-insert it.

5.c - Results

Colossus 4.0 has been tested against numerous other home computer chess programs and has beaten them all. In the tests, sixteen games were played, on various levels, with an equal number of whites and blacks for each program. One point was awarded for a win, half a point for a draw, no points for a loss. The results of these tests were as follows:-

Colossus 4.0 (Apple II) beat the following programs by:-

Mychess 2.0	Beyond	CBM 64	10.6
White-Knight Mk12	BBC Publications	BBC	11.5
Sargon III	Hayden	Apple II	12.4
Superchess 3.5	CP Software	Spectrum	12.4
White-Knight Mk11	BBC Publications	BBC	14.2
Parker Chess	Parker Games	Atari	14.2
Cyrus IS Chess	Sinclair	Spectrum	14.2
Superchess 3.0	CP Software	Spectrum	15.1
Chess 7.0	Odesta	Apple II	16.0
Sargon II	Hayden	Apple II	16.0
Chess	Atari	Atari	16.0
Chess	Acornsoft	BBC	16.0
Chess	Bug-Byte	BBC	16.0
Chess	Computer Concepts	BBC	16.0
Chess	Program Power	BBC	16.0
Grandmaster	Audiogenic	CBM 64	16.0
Chess	Oasis	Dragon	16.0