Project MAG

Artificial Intalligence Project

Project MAC Participants Peter Samson

Subject:

Use of MACDMP

Memorandus: MAC-N-248 July 3,1965

MEMO. 118 (Revised 11 PDP-6 Software Update

Donald Eastlake.

MACIMP is a PDF-6 program which can load from DECtape to core mamory, dump core onto DECtape, or verify a previously dumped file against memory, Normally, just before it loads, it plears all of memory to \$ (except itself and locations & through 37); and, in general, it does not dump locations containing &. (It also does not dump itself, or locations & through 27.) In this way, a short program uses only a few blocks on tape. MACRYP uses the MAC PDP-6 file structure and directory swheme, and writes files in mode 1. 一人概题的第一个个小

To start MACINE, put the tape MACINE SYSTEM on unit 1 and press READ IN with TA . J. If this has no effect, try TA . 1 or 2. If these fail, put the paper tape NACIMP in the reader and START, TA = 26. If the loader at 26 is absent, load the MACROW paper tape like the RIM Loader Loader.

To tell MACDAP which tape unit to use, type the unit number followed by ALT MODE. The ALT MODE will be echoed as \$. Initially MACINE, is sat to use the DECtape it was loaded off; the tape number need be special fied only to change it.

To load a program off the currently selected tape, the following commands are available; (is a space, 2 is a carriage return, and (is an AIT MODE.) Just before loading, all load commands set location 4\$ to \$.

clears core, loads program SUBMM1 SUBMM2, goes to starting address of program loaded.

clears core, loads program, sats starting address, stays in MACTME.

MED SUBNH1..SUBNM2 🕽

does not clear core, loads program, sets starting address, stays in MACIMP.

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DET 34866 should be in core when this command is given; the progree SUBMed SUBME2 should be in SELK mode. Core is cleared except for BDT, the program is loaded, the symbols for the program are added to DUT's symbol table, and control goes to DDT.

MS) Subrm 1 🚅 Subroh2 🕏

Same as TES but does not clear eny core.

To set the starting address, type it as an octal number followed by ALE HODE. The starting sidress must be greater than 7. To go to the curvent starting address, type GG). To dump core, type DGSUBNNI SURMARY .
If another SUBNRI SURMARY exists on that tape, it is deleted. The new file will be in DUMP mode. The current starting address is written as the starting address of the dumped program.

The command KC SUBMM1, SUBMM2 & deletes SUBMM1 SUBMM2 from the file directory, but does not write the modified directory onto tape. That is accomplished by dumping.

The command F causes a printout of the file directory of the current tape. The first column is the mode, according to the following table; the second column is the first subname; next comes the Second subname.

MODE	CHARACTES PRINTED
ASCII	4.4
DUMP	1
SELK	-tt
RELOC	绛

To check for agreement between memory and a file on tape, type T@SUBNH1 SUBNH2 2 . A bell will be typed if they disagree.

In general, MACHAT will type out a bell for any error it detects; other than I unit of the selected number; checksum error on reading; disagreement on I@; no symbols found for T@; file not in directory for read; not enough room on tape or in file directory for dump.

The program uses 37176 through 37377 for temporary storage (including file directory) and sits in 37489 through 37757. The entry point is 37489. MACIMP leaves # in 37176.