LADE COMPUTER NOTE 33

JADE NORD SOFTWARE NEWS

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15 February 1980

SMALL PROGRAMS WITH VERY LARGE :PROG FILES

THE DUMP Kname) command in NRL sometimes produces :PROG files which are far too large for the program. Usually these files which are far too large for the program when running but it uses up the filestore; which is in short supely, and takes a very long time for the program to be dumbed or loaded. The problem has been traced to program until COMMONS which are initialised by IATA statements. The reason is as follows: -NRL places instructions from the bottom of the virtual store (usually after the loader i.e. the 6th page) upwards, and COMMONS from the top downwards. The :FRGG file contains contistous memory. If COMMONS are not used or zero not initialised; they have to be saved on the :FRG file and hence the file and hence the the COMMONS are initialised; they have to be saved hence the whole virtual store (except for the loader itself) is saved which results in an enormous :PROG file.

The colution is to make the tow COMMON address so that the usstad asy between instructions and commons is reduced to less than one pase. The command UPPER-LIMIT (address) does this. The address should be on a pase boundary to optimise filestore use. The value of (address) has to be determined by trying! See the following example.

BORL
EN-UN
FREE: 013665-17777
LOAD EXAMPLE: FROG is 59 Pases long !!

EXIT
EXAMPLE: Occument top address lowered
LOAD EXAMPLE: FROG is 59 Pases long !!

EXIT

EXAMPLE: PROG is 59 Pases long !!

EXAMPLE: PROG is 59 Pases long !!

EXAMPLE: Occument top address lowered
LOAD EXAMPLE: FINLIB

if your progres is subsequently increased in size so that the progress and commons overlap, the address supplied to upper-limit should be relaed.

EXAMPLE:PROG is now 7 Pages !!

FREE: 024537-027633 (mbp "EXAMPLE"

DIRER NRL INFORMATION

If sou set the NRL message LOADER TABLE OVERFLOW this is table to more entries (subroutines) than it can hardle. The sold size can be increased by the SIZE command (see manual) since the loader resides in the first 6 pages of the Since the loader resides in the first 6 pages of the 59 pages. Frostem and data space is normally limited to 59 pages. The sour really need the last 6 pages the limit the program on a file before brinsing it back into memory with KUN or DUMP. Since the disc is used instead of memory the time taken to perform a load sequence is increased.

PRINTING TEXT FILES CREATED BY A FORTRAN PROGRAM

when a FORTRAM program writes to a file using format statements, the control characters are stored in the file. If this is sent to the printer via the COPY command the control characters would appear on the output instead of being observed. To overcome this problem the PRINT-FILE program should be used to read the file and send it to the output device.

