

-- SegMap.Mesa Edited by Sandman on August 30, 1977 10:30 AM

DIRECTORY

IODefs: FROM "iodefs",
 AltoDefs: FROM "altodefs",
 SegmentDefs: FROM "segmentdefs";

DEFINITIONS FROM AltoDefs, IODefs, SegmentDefs;

SegMap: PROGRAM IMPORTS IODefs, SegmentDefs SHARES SegmentDefs = PUBLIC BEGIN

byte: NumberFormat = NumberFormat[8,FALSE,TRUE,3];
 word: NumberFormat = NumberFormat[8,FALSE,TRUE,6];

PrintDataSegment: PROCEDURE [seg:DataSegmentHandle] RETURNS [BOOLEAN] =
 BEGIN OPEN seg;
 WriteNumber[VMpage,byte]; WriteChar[SP];
 WriteNumber[AddressFromPage[VMpage],word];
 WriteString[" "];
 WriteNumber[pages,byte];
 WriteLine[" VM"];
 WriteChar[CR];
 RETURN[~More[]]
 END;

PrintFileSegment: PROCEDURE[seg:FileSegmentHandle] RETURNS [BOOLEAN] =
 BEGIN OPEN seg;
 WriteNumber[VMpage,byte]; WriteChar[SP];
 WriteNumber[AddressFromPage[VMpage],word]; WriteChar[SP];
 WriteNumber[base,byte]; WriteChar[SP];
 WriteNumber[pages,byte]; WriteChar[SP];
 WriteString["SN"]; WriteOctal[file.fp.serial.part2];
 SELECT class FROM
 code => WriteString[" code"];
 symbols => WriteString[" syms"];
 bcd => WriteString[" bcd"];
 ENDCASE;
 IF read OR write THEN WriteChar[' '];
 IF read THEN WriteChar['R'];
 IF write THEN WriteChar['W'];
 IF swappedin THEN WriteString[" in"];
 IF lock > 0 THEN
 BEGIN
 WriteString[" lock="];
 WriteOctal[lock];
 END;
 WriteChar[CR];
 RETURN[~More[]]
 END;

lc: INTEGER;
 full: INTEGER = 18;

More: PROCEDURE RETURNS [BOOLEAN] =
 BEGIN c: CHARACTER;
 IF (lc + lc+1) >= full THEN
 BEGIN lc + 0;
 DO -- until non-random input
 SELECT (c + ReadChar[]) FROM
 SP,CR,LF => EXIT;
 DEL => RETURN[FALSE];
 ENDCASE;
 ENDLLOOP;
 END;
 RETURN[TRUE]
 END;

DO WriteChar[CR]; lc + 0;
 [] + EnumerateFileSegments[PrintFileSegment];
 WriteChar[CR]; lc + full;
 IF More[] THEN
 [] + EnumerateDataSegments[PrintDataSegment];
 WriteChar[CR]; STOP;
 ENDLLOOP;

END.