

SETMAP(a)

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NAME

setmap — set access, mode and starting segmentation register

SYNOPSIS

(setmap = 9.)
setmap(segnum,access,basereg)

DESCRIPTION

Setmap sets the virtual address space (supervisor or user), virtual address in I or D space, and the access permissions including expansion direction, of the segment indexed by *segnum*. The virtual address space and access are specified by *access* as follows:

bit 13:12	mode (1 - supervisor, 2 - user)
bit 5	1 if segment is shareable
bit 3	expansion direction (1 for stack segment)
bit 2:0	access (6 - read/write, 2 - read only)

The virtual address is specified by *basereg*:

bit 3	I or D space (1 for D space)
bit 2:0	starting segmentation register

Setmap does not affect the activity of a segment (eg if the segment was inactive, it remains inactive). A value of 1 is returned from C.

ALSO SEE

addseg(a)

DIAGNOSTICS

C returns -1 if:

- 1) *segnum* points to a null entry
- 2) *basereg* causes the segment to spill over into non-existent segmentation registers

Fault return with code 10 if *segnum* exceeds the available number of segment table entries.