

516-8
CC
12/16/68

DISK HOLE FORMAT

When a segment is read from disk and expands or contracts while in core then it can no longer be written on disk in its old slot (or a gap is left if it has contracted). A new slot on disk must be allocated and the old slot is then marked as a hole. These holes will be collected and reused when there is no longer any space at the top of the disk to allocate.

HOLE FORMAT

CONVENTION
INC. DISK ADDR.

SECTOR
BOUNDARY

SEGMENT TYPE
= 0 INDICATES
A HOLE

SEG. TYPE	HOLE SIZE (11)
= 0 (6)	
0	
0	
CHECK SUM	

HOLE SIZE IS
NO. OF DISK SECTORS
(8 WORDS/SECTOR)

CHECK SUM IS 2'S
COMPLIMENT SUM + 1

16-8
 C.C.
 6/20/68

DISK HOLE FORMAT

WHEN A SEGMENT IS READ FROM DISK AND EXPANDS OR CONTRACTS WHILE IN CORE THEN IT CAN NO LONGER BE WRITTEN ON DISK IN ITS OLD SLOT (OR A GAP IS LEFT IF IT HAS CONTRACTED). A NEW SLOT ON DISK MUST BE ALLOCATED ~~ON DISK~~ AND THE OLD SLOT IS THEN MARKED AS A HOLE. THESE HOLES WILL BE COLLECTED AND REUSED WHEN THERE IS NO LONGER ANY SPACE AT THE TOP OF THE DISK TO ALLOCATE.

HOLE FORMAT

CONVENTION
 INC. DISK ADDR.

