To: Distribution

MOSN - 4.3.1
Revision 1

From: Bill Silver

Date: October 31, 1973

Subject: New Configuration Cards

I. PURPOSE

The purpose of this MOSN is to describe two new configuration cards: "PART LOG" and "OPC"; and a change to the "INT" card. The "OPC" card replaces the former "OPCN" card. These new cards will be needed when the new operator console and syserr software is installed.

II. DESCRIPTION OF NEW CONFIGURATION CARDS

a) PART LOG frec1 nrec1 ... frec5 nrec5

Defines a secondary storage partition for the paged syserr_log segment. The absence of this card implies that the syserr logging mechanism will be disabled. Note, this partition may reside on only one device.

LOG implies that this partition is for the syserr_log.

freci is the first available record on device i which may be used by the LOG partition.

nreci is the number of records on device i which may be used by the LOG partition. This value should not exceed the max_length value defined for the syserr_log segment in the multics header. The minimum of these two values will be used.

Example

```
PART LOG   0 0   0 0   8760. 64   0 0   0 0
```

b) OPC iom_num chan_num buf_split

The OPC card is an optional card which provides information about the operator console and how it is to be used by the software.

iom_num is the number of the IOM to which the operator console is attached. If the OPC card is missing a default value of 1 is used.

chan_num is the number of the channel assigned to the operator console. If the OPC card is missing a default value of (20 octal) is used.

buf_split is the percentage of the operator console write buffer which is to be used for syserr messages. The remainder of the buffer is used for "OC_" dim messages. If the OPC card is missing a default value of (80.) is used. If this field does not have a value that is within the range (20. to 80.) then the default value (80.) will be used.

Example

```
OPC   1    20    40.
```

c) INT int0 intl int2 int3 int4 int5

Defines the process interrupt cells in the Multics system configuration. (Process interrupt cells are internal software-generated interrupts used to control operation of Multics). Int5 is a new process interrupt.

int0...

int3 are process interrupt cell assignments which are given in octal. The value of the field module (100 octal) is the interrupt cell number. The octal hundredths position defines the interrupt type. Values like (230) are type 2 while values like (22) are type 0. Type 2 interrupts execute on the PDS stack and may take page faults. Type 1 interrupts are not currently defined. Type 0 interrupts execute on the PRDS and are not allowed to take page faults.

int4 is the system trouble interrupt cell assignment. (Currently this is 22).

int5 is the syserr log interrupt cell assignment.

Example

```
INT   230   231   232   233   22   223
```