IN THIS NEWSLETTER

New Operating Policy.................. 2
New Tape Numbering System............. 4
Reduction in Available Core............ 4
Death to Device Request Cards......... 5
Death to Console Operations........... 5
Printer & Plotter Forms Changing.... 6
FORTRAN PAUSE Statement.............. 6
NEW PROGRAMS: CLEARPSD.............. 7
UNITAB.................................. 8
XREF.................................... 9
GPSS................................... 10
PATTI'S PAGE......................... 11

This newsletter is published once per month or as often as is needed to keep the user community informed as to system changes, upgrades and enhancements, and changes in operations procedures. A copy will be sent to everyone on our "user file". Anyone desiring to be placed on our file or wishing additional copies of the newsletter should notify the computing center secretary. Please direct all questions, comments, suggestions and complaints to John Golini, Chief Systems Programmer.
their plots come off the 563 or oversee their tape and disk mounts, must now learn to operate as a normal job through the window. We must make this policy absolute and it specifically includes computer center staff members. Please use the time between now and September 1 to adjust to this new policy and notify Mr. Golini or myself of any problems you may encounter.

For those special projects who have had Machine Room keys to run their jobs during non-scheduled hours, we are instituting a policy of providing an operator on 24 hour notice. Thus, we must insist that as of Sept. 1, 1973, all users stay out of the Machine Room at all times. Your cooperation in this new policy is needed to enable us to concentrate on minimizing turnaround for everyone.
DEATH TO DEVICE REQUEST CARDS

Effective September 1, 1973: DRCs (Device Request Cards) will no longer be supported by the programming system. Use of a DRC will cause a "STMNT FMT ERR" message to be printed but the job will continue. Also at this time, a new version of the FORTRAN I/O unit assignment table will be installed. The following is a list of the FORTRAN unit numbers and the system units to which they are logically connected:

<table>
<thead>
<tr>
<th>FORTRAN Unit</th>
<th>System Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>SYS000</td>
</tr>
<tr>
<td>1</td>
<td>SYS001</td>
</tr>
<tr>
<td>2</td>
<td>SYS002</td>
</tr>
<tr>
<td>3</td>
<td>SYS003</td>
</tr>
<tr>
<td>4</td>
<td>SYS004</td>
</tr>
<tr>
<td>5</td>
<td>SYSIPT</td>
</tr>
<tr>
<td>6</td>
<td>SYSOPT</td>
</tr>
<tr>
<td>7</td>
<td>SYSPCH</td>
</tr>
<tr>
<td>8</td>
<td>SYS008</td>
</tr>
<tr>
<td>9</td>
<td>SYS009</td>
</tr>
<tr>
<td>10</td>
<td>SYS010</td>
</tr>
<tr>
<td>11</td>
<td>SYS011</td>
</tr>
<tr>
<td>12</td>
<td>SYS012</td>
</tr>
<tr>
<td>13</td>
<td>SYS013</td>
</tr>
</tbody>
</table>

SYS000 and SYS001 (units 0 and 1) can be used as scratch datasets (block size 360) by a FORTRAN programmer without the use of any access cards. These will use the standard system scratch files SDS000 and SDS001. Be aware that many system programs (especially language processors) also use these files for scratch work.

FORTRAN unit 15 (SYSLOG) is no longer supported.

DEATH TO CONSOLE OPERATIONS

Effective September 1, 1973: No console operations of any kind will be allowed. Any attempt to use the console typewriter from a problem program will result in the job being cancelled with the message "0LF - ILLEGAL USE OF DEVICE". This is absolute and NO exceptions will be granted, except by special request to the Director.
CLEARPSD

CLEARPSD is a program which clears the system's directory for any compilations done previously in this job. This directory (called the pseudo directory) is normally cleared by job control only at the end of each job. The use of CLEARPSD effectively allows the compilation and execution of several separate programs in one job, obviating the end-of-job and accounting functions between programs. Also, any catastrophic event affecting the first program prevents the second program from running.

The most obvious use for CLEARPSD is between two programs when the first sets up data for the second.

Example: Combine the following two programs into one job. The first program copies cards to a dataset named X. The second program reads and operates on records from the dataset X.

```
// JOB ....
// CHARGE ...
//SYS003 ACCESS X
// EXEC FORTRAN(CLG)

  . copy program

/*
/*
  . cards to be copied

/*
// EXEC CLEARPSD
//SYS004 ACCESS X
// EXEC FORTRAN(CLG)

  . prog to read & process records from X

/*
/*
&
```

As an added feature, CLEARPSD does a page eject so that the second compilation will begin on a new page. This can be overridden by the option NOEJECT:

```
// EXEC CLEARPSD(NOEJECT)
```
XREF

XREF is a FORTRAN documentation and debugging aid. That is, with a FORTRAN source program as its data, XREF produces the following lists.

1. FORTRAN source with lines numbered in the same manner in which the compiler numbers them.

2. An alphabetized list of the variable names used with the type (integer, real, etc.), dimension, and line numbers of uses of the variables.

3. A sorted cross reference of statement numbers, their definition and references.

4. A sorted table of external symbols (subroutine and function subprograms), including type and line reference numbers.

Multiple decks can be processed since the program recognizes the END card of each routine.

To obtain an XREF, use the following job setup:

```plaintext
// JOB ...  
// CHARGE ...  
// EXEC XREF  
   . FORTRAN deck(s)  
   .  
/*  
*/
```

9
(notes from the operator)

1. Please be sure that every deck you submit has a slash-amper-sand (/&) card as the last card in the deck. This is important because the system will not sign your job off until it reads your /&.

2. The computer center will be closed every morning from 8:00 A.M. until about 8:30 for cleaning.

3. We will also be closed between 5 and 7 p.m. (until the end of the summer only) for System Maintenance.

4. Attached is a list showing old tape numbers and new. Please be very careful that you ask for the correct number in your submission card. Since the old labels will be left on the tapes for a few weeks after the new ones are put on, it is suggested that you write both the old and new number on your yellow card to serve as an added check.