PDP - USER SUBPROCESS

USER REQUESTS

ALL USERS REQUESTS INCLUDE THE FOLLOWING DATA:

- JOB #
- IDENTIFICATION TEXT
- DISK FILE CAPABILITY
- COMPLETION TIME

1. READ CARD DECK (RCD)
   WHEN A JOB CARD WITH THE SPECIFIED JOB # AND IDENTIFICATION COMES INTO THE CARD READER, IT WILL BE WRITTEN ONTO THE GIVEN DISK FILE.

2. PRINT ASCII FILE (PAF)
   THE GIVEN FILE WILL BE PRINTED AS CLOSE TO THE SPECIFIED TIME AS POSSIBLE.

3. READ SCOPE XMODE TAPE (RST)
   THE REEL # MUST BE INCLUDED IN THE IDENTIFICATION. THE TAPE WILL BE COPIED ONTO THE DISK FILE IN
PDP - US

Scope Simulation Format until a Zero Length File is encountered.

4. **WRITE Scope Xmode Tape (WST)**
   As per READ Tape

5. **PRINT REQUEST STATUS (PRS)**
   All completed requests under the specified job # are printed and deleted from the queue.

6. **OBTAIN Device Capability (ODC)**

**DETAILS**

All requests are passed to PDP central via the REQUEST file and
4th slot in the communication c-list. The LOCK/SEQUENCE # event is available if there
is no request in the file I/c-list. The REQUEST CODE/ACTIVITY event is sent.

By PDP-US when a new request is entered.
After PDP-CP, queues the request.
It sends the next Lock/Sequence event. The request file is 6 words long:

1. **JOB # - Binary Integer**
2. Completion Time - Time of Day in ASCII
3. **ID Text** - 4 words of ASCII Text
PDP - Central Process

Tasks

The Central Process is responsible for the following:

- Accepting User Requests from PDP-US
- Maintaining The Queue
- Displaying Device Status
- Displaying Queue
- Talking with the 3 PDP-DP's
- Talking with the Operator
- Dispensing Capabilities for Devices to Users

PDP-US Services

When an activity event is received, the value of the event is interpreted as the order code. Illegal codes are:

1. RCD - The information is entered into the Queue.
2. PAF - ""
3. RST - ""
4. WST - ""
5. FRS - The sequence # with the earliest actual completion time is returned as the response event.
OPERATOR SERVICES

Communication is via Screen 'E' and Keyboard 'E'. Screen E is displayed in 1/2 medium '1/2 small in this format.

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DEVICE → JOB # → STATUS → ID TEXT

CR Z3380 READY H MALAGA
LP Z3380 PAPER H STURGIS
T0 IDLE
T1 Z3378 MOUNT 8128 OUTPUT
T2 IDLE
T3 OFF
T4 OFF
T5 J1234 PARITY 8127 OUTPUT
T6 OFF
T7 OFF

There are five operator commands.
The XX is a device name.
XX GO - STATUS Acknowledged and Operator Action performed

XX OFF - Turn Device off when IDLE. THE Device may be assigned to a USER process.
PDP CP

XX . ON  - turn device on. set to idle.

XX . BACK  - put request back in queue

XX . DROP  - drop request from device and queue.

XX . SNATCH  - snatch device capabilities from user by change unique name.
PDP - Device Processes

Task
There are 3 PDP-CP's - one for tapes, printer, card reader. They will be run in TTY-free processes. Communication with PDP-CP is via event channels.

Events sent to PDP-CP
1. Compare
2. Ready
3. Not Ready
4. Parity
5. Paper
6. Empty

Events received from PDP-CP
1. Start
2. Go
3. Drop

Note! It is planned to use existing code as much as possible.