NEW FACILITIES AVAILABLE FROM COMMAND PROCESSOR 6/6/71

ASK USER

an operation available to a subprocess. Opercl name CP:ASKU.

no parameters. expects return authorization capability count of 1.

Types a double quote on tty. (no preceeding cr?) Expects user to type a KKNNM name of an object using command processor standard nameing conventions. Uses the command processor standard scan list for implicit scan list. RKNNKKK Reports all errors encountered directly to the user tty. This includes panics. (Name typed at tty ends with cr, of course.) Returns the named object to the calling subprocess.

FIND

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Not slots and Temporary disk space should be not used for now. Temporary disk space may cause system crashes.

Errors are returned to the calling subprocess in a confusing maner, but as errors. The one the subprocess may be most interrested in is 'already have space of equal or higher priority'. All of these errors have the command processor error class (20B) and an error number listed in KMNNX CMMDF. I am not quite sure how i will publish these numbers.

A subprocess is expected to proceed as follows:

- I) have small initial map entries so as to keep swapped space needs below nominal. We hope to reduce nominal once this is being used.
- II) Large fluctuations in swapped size should be handled MXX by going nomimal, then to the new size. Of course, man entries have to be zeroed during this.
- III) Large subprocesses, such as Scope, which have a command NXXXXXXX mode should go small while processing the next command. The line collector may eventually have a call that will freturn if no line is immediatly available, then these subprocesses could go small only if they have to wait for a line.

ACABILITY CARAMETERS USSED ON INITIAL CALL

If the bottom 18 bits XX of the top 30 bits of the word address zero in the subprocess descriptor is non zero. It is assumed that this XX subprocess expects capability parameters. All objects placed in the XXXXXXX clist for the subprocess at creation time will be shifted to higher indexes by the amount in those 18 bits. The subprocess call operation constructed for the subprocess will have one block capability parameter with count equal to XXXXXX the value of those 18 bits.