

Feb 24 1971

Proposal for proprietary subprocesses.

I) new dish system object and actions.

object is called a ~~subprocess~~ proprietary subprocess descriptor

~~capability~~ is exactly like a directory capability except of new type. (Locked directory?)

A) create proprietary subprocess descriptor
C: directory

produces a capability exactly like its parameter except for the type field

B) unlock proprietary subprocess descriptor (available only to that subprocess which builds user subprocesses)

C: proprietary subprocess descriptor

produces the original directory capability

II) when a proprietary subprocess descriptor is presented to define a subprocess, it is assumed that in the directory,

under 'FILE' is a brand type subprocess descriptor.
under 'key' is an access key (see bracketed, below)

A subprocess is constructed using the file as descriptor.
Any objects named in the descriptor with user name 'LOCAL' will be looked up in the given directory.

III) The subprocess can protect itself from mild panics by enabling interrupts. (currently by ~~allowing~~ catching class 14₈ errors)

IV) If a major panic occurs while one of these subprocesses exists, no reference to its core or clist will be permitted. This inhibition will be removed upon execution of a new command processor command (named?) with one parameter, an access key identical to the one under 'key' in the original directory.

V) I have not yet figured out what to do with the list for the subprocess.

VI) Such a subprocess should expect to be killed at any time. (break, purge) (or Deadstart)