

Sept 11, 1970

Tentative basic command processor

This is essentially a super simple programming language.

I) internal state - 2 parts

A) directory ~~scan~~ scan list.

a seq of pairs, each pair consists of

i) a directory

ii) an access key - can \exists 2 ACs for 1 directory

B) a set of variables [max of ? variables]

~~each variable has a value which is a pair:~~

~~it is~~

i) each variable has a name (max 8 chars?) (10 lines?)

ii) each variable has a value which is one of:

a) an internal action

b) an object (capability)

) + flag
~~at a defect pair directory~~

II)

^{internal} basic action, called 'fetch'.

input is a name

procedure as follows:

- A) if the ~~identifier~~^{name} is null, a null access key is returned
- B) ~~if~~ if there is a variable with the input name, value is value of the variable.
- C) ~~if~~ if no variable of that name, each pass in the directory scan list is ~~checked~~ processed in turn. if the input name can be found in the directory and the access key checks, the resulting object is the value.
- D) ~~if~~ else the fetch fails.

III)

command action:

a command, a seq of ident.f.s separated by commas, ^{terminated by ?} _{blocks or periods} ^{is}

typed in and processed as follows:

The 1st identifier, called the act, is run through the 'fetch' action.

- a) if an internal action is obtained, it is executed, see below.
- b) if an object is obtained, and is a file (sub process description) a sub process is formed and called (with what as param?)

purposals for parameters

See sub process description for internal parameters

IV

initial value of variables
~~base~~

Fetch, Happy, done.
 Fetches done and gives
 result as value of happy

A) "Fetch" - value on internal action

The ~~the~~ second ident.符 is taken as a variable name,

~~the~~ The third ident.符 is fetched and resulting object placed as value of the variable

If a more ~~ident.符~~, even is fetched and resulting object placed as value of the variable.

Certain variables can not be ~~changed~~ changed. They are

- Fetch
- ~~kill~~
- perm
- Temp
- SYS

SCAN NORM
 Kill SET RESET

B) perm - value ~~is~~ is users permanent directory

C) Temp - value ~~is~~ is users temporary directory

D) SYS - value system directory, w. ~~no null access key~~ no null access key
 name?

so here is to
 perm, sys, temp



E) scan - value an internal action

each successive ident.f.in is fetched, ^{alternately} and values must be, a directory, access keys

~~(2nd)~~ ~~for the successive~~

and a new directory scan list is made up ~~of~~ consisting of these fetched values.

P) (11) - The ^{2nd} ident.f.in is taken as a variable name, and that variable deleted.

V)

initial scan list.

is result of

~~SCAN, SYS, norm, temp, parm,~~

SCAN, SYS, norm, temp, parm,

G) SET - The 2nd ident.f.in is taken as a variable name,

The ^{4th} ident.f.in is fetched, and is ^{BETTER} assumed to be a directory

The ^{5th} identifier is fetched, and is ^{BETTER} assumed to be an

access key ~~(1st) ~~with access keys~~~~

The ~~3rd~~ 3rd ident.f.in is looked up in the fetched directory

with the fetched access key. The object found is placed

as value of the variable (2nd ident.f.in)

H) norm - an access key, for use with system directory

J) reset - an action that wills all except the fixed variables, the ~~reset~~ initial scan list