

2/19/70

no corrections

sub process descriptor

I) scratch objects

described by a sequence of wds

42	18
size	Type

<u>size</u>	<u>disk object</u>	<u>Type</u>
	(end of list)	0
shape	swapped file	-1
length	clist	2

note: may only need 2 scratch objects  
per sub process?  
2 a scratch file, 1 a clist?

almost same amount of work to do this, and  
is more general

## II) parameter description list

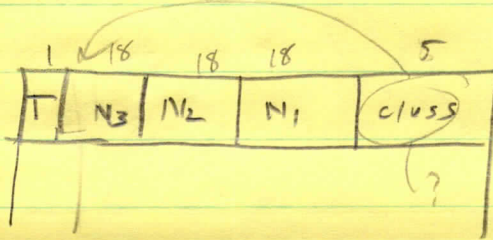
a sequence of words  
containing type and option bits  
list is preceded by a count

question: can a subprogram change any of  
its important parameters, or should  
some of those be available as parameters  
at construction time?



### III) object descriptors

1 or more words as follows:



★ T indicates that the object is to be opened.

note: certain objects will be opened regardless of T. i.e. files used in maps, and the local clist.

#### class

- 0 end marker for a list of objects
- 1 scratch object # N1
- 2 parameter # N1, and word count
- 3 Hard link, N1 is clist index of object at define time
- 4 soft link, N1 is clist index of a directory at define time, N3 is word count of rest of description

N2 is clist index of an access key at define time

~~\_\_\_\_\_~~

note: in 3, 4 N1 is clist index of unopened dir object.

3, 4 are supposed to mirror Hard/soft link entries in directories and menus in which those entries are made, so the description here may change if those ideas change

~~note: soft links are made up of N3, index of directory?~~  
~~this would be a hard link to a directory, soft link would be N1~~

#### IV Basic subprocess

<u>item</u>	<u>How given</u>
class code	object description — { if handles off line, must be to <del>the</del> (the)
class code of father	" — { an ecs goodie, (ecs object?)
#map entries	an integer
compiled map size	"
subprocess field length	"
entry point	"
C list	an integer giving scratch index, followed by a list of object descriptions

#### V contents of map

a list of items formed as follows:

object description [must be a file]  
file address  
cm address  
count  
RV flag

(terminated by an object description of type 0, without  
file address, ..., RV flag)



VI contents of c list

a list of object descriptions

VII list of hard links

for the convenience of Load & Dump disk,  
a list of all ~~pages~~<sup>pages</sup> containing hard links?