

1

# Flow of "nothing command" (from return to read-in)

Jan 2, 1969

1.5 lines / shell 51k when hand

- ✓ clock\_
- ✓ clock\_
- ✓ (time diff)
- ✓ ~~lib\_~~ lib\_ (cfdg=1 ≡ stop\_ \$ cscs\_ (convert for statement 90))
- ✓ (build-line)
- ⊙ write\_out \$nl ✓

(1/8) lib\_ 5 pages  
 pdf 2  
 pds 2

- ✓ clock\_
- ✓ lib\_ ~~lib\_~~ (stop\_ \$ sscs\_) (2/8) stock\_0 ? 22

- shell ✓
- ✓ lib\_ (stop\_ \$ cscs\_) write out reader / 7k

- ✓ lib\_ (stop\_ \$ cscs\_)
- ✓ clock\_

- ⊙ hcs\_ \$usage\_ values ✓

- ✓ (time-diff)
- ✓ lib\_ (stop\_ \$ cscs\_)

- ✓ (build-line)
- ✓ (time-diff)
- ✓ lib\_ (stop\_ \$ cscs\_)

- ✓ (build-line)
- ✓ ~~bin-dec~~ lib\_ (stop\_ \$ sscs\_)

- ✓ lib\_ (stop\_ \$ cscs\_)
- ✓ (build-line)

X. ~~shell\_ \$ [shell\_check \$nl]~~ ✓ external var.

- ⊙ write\_out \$nl ✓
- read\_in ✓

June 2, 1969

(~~time~~ build - line) Terminal call

(time - diff):

lib -	stop - \$SCS -	lib
✓ bin - dec	xx0065	
lib -	26g	
lib -	1g	
lib -	26g	
bin - dec	xx0065	
lib -	26g	
lib -	1g	
lib -	26g	
lib -	1g	
lib -	26g	
bin - dec	xx0065	
lib -	26g	
lib -	1g	
lib -	26g	
lib -	1g	
lib -	26g	
bin - dec	xx0065	
lib -	26g	
lib -	1g	
lib -	1g	

③.

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clock\_ : terminal node  
[ sysinfo & <sup>nodes</sup>clock\_ ] - sysinfo & clock 1K  
~~E~~

stop\_ & cscs\_ :  
move\_ & move\_ } terminal recall  
stop\_ & sscs\_ : } in these cases  
subtr\_ & sscs\_ } ✓

~~subtr\_~~

bin\_dec : (assume positive integer) 3 p.  
~~12x~~ lib\_ stop\_ & cscs\_ 18  
12x { lib\_ 264  
lib\_ 18 }  
lib\_ 18

hes\_ & usage\_values : 1K  
usage\_values  
[ pds & page\_waits ] - wired  
~~E~~clock\_  
[ pds & last\_recorded\_time ] - wired  
[ pds & time\_used ] - wired

④

June 2, 1969

{tty-write-out<sup>nl</sup> ≡ write-out<sup>nl</sup>): <sup>may have</sup> tdup(?) ✓

⊙ lg & cs terminal call

✓ lib\_ 18 ~~8~~

✓ lib\_ 18

⊙ lg & cs

× [ctrl-char & nl] ? 268 <sup>ctrl-char</sup> ~~write~~ 1K

✓ lib\_ 18

⊙ write

{tty-read-in ≡ ~~tty~~read-in} ✓

✓ lg & max-cs terminal call

✓ lib\_ 18

✓ lg & max-cs

⊙ read

✓ lib\_ 268

✓ lib\_ 18

write } ⇒  
read }

ios~~et~~ & write : iosw & write  
ios & read : iosw & read

Ios-1K

5

June 2, 1969

iosw { \$ write  
\$ read ✓

~~12K~~  
12K

✓ lib\_ #8 } (in clasp)  
 ✓ arg\_count\_ (terminal)  
 ✓ ~~search~~ (search) "Syn" } (incl. attach)  
 ✓ lib\_ stop\_ \$ eqcs\_ (12g)  
 ✓ (search) null (1g)  
 ✓ lib\_ 12g

~~iosw 1 \$ link~~

✓ (forward call):  
 (1) ~~typewriter~~ lib\_ typewriter \$ ~~write~~ typewriter\_write (1g)  
 lib\_ (1g)

end of iosw

~~lib\_~~

[ analysis of search):  
 n x { lib\_ (12g) } }    n a few items in attach table

⑥

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typewriter \$ typewriter - write :

✓ lib\_ 0<sub>s</sub>  
 ✓ hcs \$ tty - write 2 K

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hcs \$ tty - write → tty - write: 7 K

[tty seg \$ A]

[pds \$ proc - id]

✓ n x { listman \$ get }

✓ mini - gain \$ list - connect

listman \$ get ~~tty~~

✓ switch - stack

~~[scs \$ syslevel]~~

[tty seg \$ s]

✓ ~~master - mode - ut~~ \$ set - mask (terminal)

~~[scs \$ syslevel]~~

✓ master - mode - ut \$ set - mask (terminal)

Switch - stack:

[pds \$ stb - printer]

[pds \$ stb - printer]

[scs \$ proc - contr - ptr]

(7)

June 2, 1969

mini-gim # list-connect:

[mini-gim # data # 0]

⊙ switchstack

⊙ master-list-connect (terminal?)

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# Shell

G/2/69

→ test of segrets only.

[ shell, char & open-lit, cls-lit, open-itr, cls-itr, open-fuc,  
cls-fuc, sup-fuc, semio, space, quote, oaf, out, oel, oif, cil,  
ul, org ]

✓ lg & cs (Terminal)

✓ write-out & ul ✓

✓ cv string & cp (Terminal) ✓

condition & condition — 2k

✓ cv string & cs (Terminal) ✓

✓ call-procedure & call-procedure ≤ 11k

fake-call & pr — 3k

+dope- & t dope- ✓

reversion & reversion ✓

varst- & class ✓

[ free- & free- ]

✓ lib- & lib- ✓

✓ sscs, cscs, etcs, bshs, eqcs  
(Terminal)



①

— Call procedure: (calls nothing command) (Terminal)

Fake call \$ ptr: