

2/1/69

Dash Calculator performance or CTSS

date	# of users	# of interactions	reaction time	cpu time	swap time	c/i	s/i
2/1/69	9 users	104	24 m.	1.233	13.566	11.8 ms	130 ms.
1/26/69	14 users	113	6.1 m.	1.350	15.300	11.9 ms	147 ms.
1/11/69	19 "	14		.566	2.33	40.5 ms.	167 ms
1/11/69	14 "	250	32 m.	3.050	37.716	12.2 ms	150 ms.
2/1/69	9 "	2		.033	dir in .416	15.5 ms	215 ms.
2/1/69	"	2		.050	dir out .833		

Swap time / interaction = 150 ms

Disk swaption for first interaction = 260 ms
600 ms

if ^{sticky entry is} directory in core.
if ^{sticky entry is} ~~directory~~ not in core.

execution time / interaction = 12 ms

gross average of 165 ms / interaction

can handle 6 interaction / sec, or 360 / minute

∴ One user can produce 6 interaction / minute, on the average,

CTSS could support 60 ~~users~~ such users.

CTSS cost is 165 ms of CPU time at ≈ 240 / hour. 40 =
 $= 84$ / minute
 $= 6.6$ ¢ / second
 $= 14$ / interaction.

4 / minute \times / 160 ms

$$\frac{400}{60 \cdot 1000} = \frac{x}{160}$$

$$\frac{400 \cdot 160}{60 \cdot 1000} = \frac{64}{60} = 1 \text{ ¢}$$

Core image is
 $23318 = 1241_{10}$
 use 12 bit I/O package
 BSS deck is 7278
 $= 471_{10}$

33 ms.
~~144~~
 132
 4