

Pending horrors, etc.

Various Considerations

(\leftarrow goodie left behind)

~~+ can engineer PGM = about to \Rightarrow P-counters in Xpack?~~

2) clocke not done in Envioron

3) I.WAIT, memory test at NOPROC

~~4) Each changes:~~

~~1) don't do P-counters~~

~~2) set "hang on each" bit in PROHEAD~~

~~3) clear done~~

5) Gene's scheduler

6) Howards clock stuff

System ugly * indicates UV ugly
 × indicates 2 UV ugly

1) Funny error for missing block during create process

* 2) ~~NEWIOS won't call a sub for an error when it should!~~

* 3) in CIROC - increment references on map blocks;
 if err, decrement counts (avoid
 2CP disaster)

** 4) argh - 1) timers must be maintained in ECS
 in the K-O decoupler

2) Did Gene augment the timers
 in ECS or CM? (ECS is the answer)

3) What about the message mechanism??

Pending changes

- 1) ~~Send event / get event: don't mess with pcounter~~
- 2) Alloc temps to process descriptor
- 3) Shrink local C on SP demise
- 4) ~~BADMARC in E8INIT~~

- 1) In CHKSCHD, should P be set
in the trivial case? No (it will be set when the
things are finally scheduled)
- 2) Move some agent stuff to EES
- 3) What is the funny CLKWRIT logic??

~~NEWTOS, on int call~~
~~priority interrupt - should dec P. INTRR,~~
~~but must make sure there's~~
~~room in the stack for the~~
~~interrupt to actually run~~
~~first; also, clear pending~~
~~int flag on subp;~~
~~set inter bit in AdTOS~~

done

Fix bug in TYSNT: 'RECS P. SCRL',
to read operation.

Move codes out of R-O part of process descriptor; leave
Timer in; Mess mech in. Check all code
referencing PROTHEAVote, but: change
the RECS³ after ANR8 to RECS P. PROCRO

P flag means something has happened to the process since it was swapped out, so that it cannot simply be restarted by swapping it in & doing an X.T. If:

~~W~~, unchain from evchks

D, it is awaiting destruction

V, an event arrived, set PCQ = alarm fin.

It must be set by any action which reschedules a descheduled process

1) arrival of event

2) " " interrupt

3) " " time (was time-outed)

At swapin:

The only case where PCQ in top of stack says "in middle" is when process is hung on EVCH?

Stack conditions you can see + their significance

PC Q	f-return count	what's happening	P-counter
about to execute	garbage	interrupted scope errd arith error (or set by return) $\leftrightarrow x_5$	next int to generate
almost finished	garbage	error calculating $x_5, 0$ new p-counter without <small>or x_5 gone was</small> (or set by return & interrupt stored)	
in middle	$N > 0$	p-return processing: doing <small>or about to do</small> N+1 x_5 of an operation	

0

did a subprocess call x
(interrupted during call B)

TOSPROC is a terminal routine

New TOS subroutine

0) bad B3 = disaster

1) error error won't return

2) stack full error - requested TOS not made,
new TOS relevant to error is made

3) Envion errors - new TOS exists,
envion as per same error exit
from envion

fast actions - separate type?

clocks	4 words
find filelist	6 words
stocks	4 words
geteq (0)	?