2 CP disaster sheet

1) ~~processor~~ CP A is ~~making a map entry~~, finds a block missing;
~~processor~~ CP B creates the block;
~~processor~~ CP A decrements map counts on blocks + goofs up newly created block + any that follow

2) ~~processor~~ CP A is making a process, finds all necessary blocks for map entries present;
CP B deletes one of the blocks;
CP A goes to disaster.

Speed phreaques, scheduling, & compactification, ECS code, DAE, & other theological questions made simple.

SF's are supposed to give damn fast responses, like for a real-time something or another. Thus, when an SF is {awakened / interrupted}, the scheduler has to do something snaffy. The current guy has to be suspended & the SF fired up within some short time $\leq l_1$. Normally, being system code & all, enuf of the CU to accomodate the SF could be copied by brute force to ECS & the SF brought in & run. The CU is then restored & allowed to run. A know of some problems:

1) The CU may be in the middle of a system call which is executing ECS code in some buffer. The SF may wipe out the buffer. It seems like the contents of the buffers have somehow to be preserved.

2) ECS may be all hart 'cause compactification is in progress. The compactifier has to be told to cool it. It will require some piece of time l_2 to get itself straight. In the sense, it must

be incremental.

3) The allocator isn't really reentrant. The fight between L_1 & L_2 is obvious. ~~Two~~ Some things should be noted:

1) ~~If the~~ The SF's may may have to be reconfiled.

2) The compactifier may be moving something gargantuan. Either
   a) it is allotted to finish
   or
   b) a mechanism for half-moving something had to be thunk up.

3) The SF betters hadn't cause anything to be allocated (even destroyed is annoying).

4) If there's more than 1 SF, things get complicated fast

5) How long can I-LOCK remain set?

Details of initiating a SF

A process may be fired up by:

1) getting an event
2) receiving an interrupt
3) being created.

For now, we consider only 1 (& will include 2 & 3 later if it fails out for it we're forced to)).

A) The interrupt code calls the event code calls the scheduler. The scheduler detects that it's a SF awakening.

B) The scheduler may have to determine what was interrupted:

1) user
2) system

so as to get into (& out of) monitor mode correctly