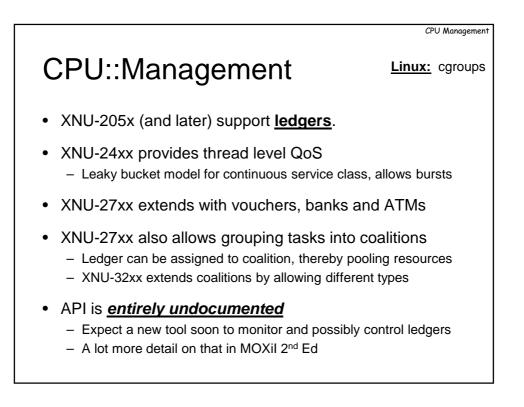
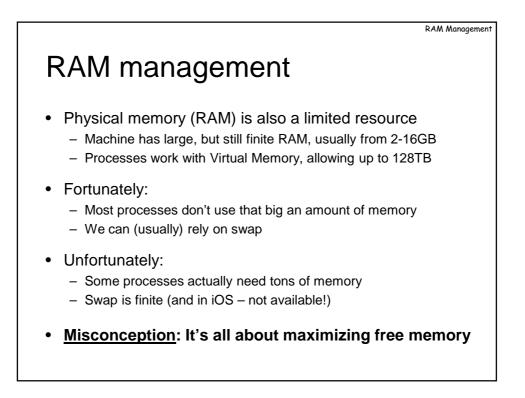


CPU::Mana	CPU Management Openent You about process_policy
	on POSIX system call, #323
PROC_POLICY_	Behavior
BACKGROUND	Not supported yet (at least not on OS X)
BOOST	Set an IMPORTANT or DONATION
HARDWARE_ACCESS	Not supported yet
RESOURCE_USAGE	Only supports CPU but will likely be expanded for WIRED/VIRTMEM, DISK, NETWORK and POWER
RESOURCE_STARVATION	How to handle low resource situations
ΑΡΡΤΥΡΕ	Change application behavior
	lach's task_policy_set (requires task port) skpolicy(8) and taskinfo(1)





RAM Management

Classifying Memory

morphous@zonbur () \$ um stat		
morpheus@Zephyr (~)\$ vm_stat	(none cite of	1006 hutes)
Mach Virtual Memory Statistics:		
Pages free:		# Free, as in entirely unused
Pages active:		# In use
Pages inactive:		# Next to be cleared
Pages speculative:	131636.	# In memory, but read-ahead
Pages throttled:	0.	
Pages wired down:	449851.	<pre># Resident and can't be evicted</pre>
Pages purgeable:	108016.	<pre># Automatically cleared on low mem</pre>
"Translation faults":	39723111.	# Page faults
Pages copy-on-write:	411043.	<pre># Implicitly shared</pre>
Pages zero filled:	21050217.	# anonymous clean
Pages reactivated:	19409086.	# Were inactive, now active
Pages purged:	4211760.	
File-backed pages:	653981.	<pre># mmap(), will commit to files</pre>
Anonymous pages:	512741.	<pre># malloc(), will commit to swap</pre>
Pages stored in compressor:	162832.	# 10.9 and later:
Pages occupied by compressor:	73847.	# Memory Compressor
Decompressions:	8951036.	# statistics
Compressions:	20099788.	
Pageins:	1941796.	# Count of page ins from filesys
Pageouts:	133969.	
Swapins:	2160243.	
Swapout	5282556.	

PAGE STATE	APPLIES WHEN	
Free	Physical page is not used for any virtual memory page. It may be instantly reclaimed, if the need arises.	
Active	Physical page is currently used for a virtual memory page and has been recently referenced. It is not likely to be swapped out, unless no more inactive pages exist. If the page is not referenced in the near future, it will be deactivated.	
Inactive	Physical page is currently used for a virtual memory page but has not been recently referenced by any process. It is likely to be swapped out, if the need arises. Alternatively, if the page is referenced at any time, it will be reactivated.	
Speculative	Pages are speculatively mapped. Usually this is the result of a guessed alloca- tion about possibly needing the memory, but it is not active yet (nor really inac- tive, as it might be accessed shortly).	
Wired down	Physical page is currently used for a virtual memory page but cannot be paged out, regardless of referencing.	

