

#####

header Kernel

uses System, List, BitMap

const

SYSTEM_STACK_SIZE = 1000 -- in words
STACK_SENTINEL = 0x24242424 -- in ASCII, this is "\$\$\$\$"

-- The kernel code will load into the first megabyte of physical memory. This
-- should be more than enough. We will use the second megabyte for page frames.
-- Thus, the frame region is 128 page frames of 8K each.

PAGE_SIZE = 8192 -- in hex: 0x0000 2000
PHYSICAL_ADDRESS_OF_FIRST_PAGE_FRAME = 1048576 -- in hex: 0x0010 0000
--NUMBER_OF_PHYSICAL_PAGE_FRAMES = 512 -- in hex: 0x0000 0200
-- ##### NEW code #####
NUMBER_OF_PHYSICAL_PAGE_FRAMES = 100 -- for testing only
-- ##### NEW code ##### endClass

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var

readyList: List [Thread]
currentThread: ptr to Thread
mainThread: Thread
idleThread: Thread
threadsToBeDestroyed: List [Thread]
currentInterruptStatus: int
processManager: ProcessManager
threadManager: ThreadManager
frameManager: FrameManager
 -- ##### NEW code #####
diskDriver: DiskDriver
--serialDriver: SerialDriver
fileManager: FileManager
 -- ##### NEW code #####

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InitializeScheduler ()
Run (nextThread: ptr to Thread)
PrintReadyList ()
ThreadStartMain ()
ThreadFinish ()
FatalError_ThreadVersion (errorMessage: ptr to array of char)
SetInterruptsTo (newStatus: int) returns int
ProcessFinish (exitStatus: int)
-- ##### NEW code #####
InitFirstProcess ()
-- ##### NEW code #####

-- Routines from Switch.s:

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endHeader