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;\* Module Name: XSEG\_EXT

;\*

;\* Description: Extended equates for xram system variables for the

;\* DS80C400 C Libraries

;\*

;\* Filename: xseg\_ext.inc

;\*

;\* Dependant Files: none

;\*

;\* Author: K

;\*

;\* Compiler: A51.EXE

;\*

;\* Version: 0.03

;\*

;\* Created: 01/20/03

;\*

;\* Modifications: 0.03 - Updated to include space for Keil Monitor stuff

;\*

;\* Notes:

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;

WOS\_MAX\_TASKS equ 8

;

; The beginning of the extended XSEG area. This needs to allow plenty of

; room for the XSEG area of the ROM underneath it.

;

XSEG\_EXT\_START equ 8192

;\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

; FILE SYSTEM STUFF

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;

; Filesystem root directory pointer.

;

FS\_TRANSACTION\_BUFFER equ XSEG\_EXT\_START + 20

FS\_SYSTEMLOCK equ FS\_TRANSACTION\_BUFFER + 30

FS\_ROOTHANDLE equ FS\_SYSTEMLOCK + 1 ; this is at 8243, or 2033h

FS\_OPENFILES equ FS\_ROOTHANDLE + 3

FS\_LOCKEDFILES equ FS\_OPENFILES + 24

FS\_EXECUTING equ FS\_LOCKEDFILES + 24

FS\_WRITEBUFFER equ FS\_EXECUTING + 32 + 20 ; This offset needs to change

; if MAX\_PROCESSES changes. it is currently

; (20 bytes of padding) + (4 \* MAX\_PROCESSES)

FS\_READBUFFER equ FS\_WRITEBUFFER + 1

FS\_END equ FS\_READBUFFER + 1

;

; Simple memory manager, memory manager for file system.

; 256 byte blocks, simple mapping scheme.

;

SMM\_START\_POINTER equ FS\_END ; Points to beginning of SMM managed memory

SMM\_NUM\_BLOCKS equ SMM\_START\_POINTER + 3 ; Number of 256-byte blocks allocated to SMM

SMM\_OVERHEAD\_BLOCKS equ SMM\_NUM\_BLOCKS + 2 ; Number of blocks used on SMM overhead. The

; next block after this overhead is the first

; block available to the file system.

SMM\_MAX\_FDOPEN equ SMM\_OVERHEAD\_BLOCKS + 1 ; Max number of open File Desc's allowed

SMM\_END equ SMM\_MAX\_FDOPEN + 1

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; KEIL MONITOR400 STUFF

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MONITOR\_INTERRUPT equ SMM\_END

MONITOR\_HACK\_LJMP equ MONITOR\_INTERRUPT + 5 ; space for 1 ljmp statement (+ 1 byte address) for interrupt

MONITOR\_INTERRUPT\_END equ MONITOR\_HACK\_LJMP + 4 ; space for 1 ljmp statement for code start