

GrabFSPages causing exception

Source:

<http://www.tech-archive.net/Archive/WindowsCE/microsoft.public.windowsce.platbuilder/2005-12/msg00208.html>

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 - *Date:* Tue, 6 Dec 2005 10:29:02 -0800
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Hi

I am working on a BSP cloned from mainstone II on pxa270 processor. We are downloading the image using ARMBOOT (over serial port). The execution flow that we see, the image is executing upto GrabFSPages and is causing an exception in RemovePage function in GrabFSPages (in private directory).

The flow goes like:

Startup->OALStartup->KernelStart->ARMInit->OEMDebugSerialInit->OEMInit->KernelFindMemory->GrabFSP

The last message the we get is:

Booting kernel with existing memory configuration:

Memory Sections:

- [0] : start: 81687000, extension: 81689000, length: 81688000
- [1] : start: 8168a000, extension: 8168c000, length: 8168b000
- [2] : start: 8168d000, extension: 8168f000, length: 8168e000
- [3] : start: 81690000, extension: 81692000, length: 81691000
- [4] : start: 81693000, extension: 81695000, length: 81694000
- [5] : start: 81696000, extension: 81698000, length: 81697000

ERROR: c:\macallan\private\winceos\coreos\nk\kernel\physmem.c line 284:

RemovePa

ge : removing invalid address 0x81e83000 (PFN 0xa1e83000)

NK Kernel: DEBUGCHK failed in file

c:\macallan\private\winceos\coreos\nk\kernel\physmem.c at line 285

The config.bib is:

MEMORY

; Name Start Size Type

; -----

RSVD 80000000 000FF000 RESERVED

ARGS 800FF000 00001000 RESERVED

NK 80100000 03000000 RAMIMAGE

RAM 83100000 00F00000 RAM

; Reserve ZBANK virtual block (No physical memory

; is required to back this virtual range).

;

ZBANK 96500000 00100000 RESERVED

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The OEMAddressTable is:
g_oalAddressTable

DCD 0x80000000, 0xA0000000, 64 ; MAINSTONEII: SDRAM (64MB).
DCD 0x84000000, 0x5C000000, 1 ; BULVERDE: Internal SRAM (64KB bank 0).
DCD 0x84100000, 0x58000000, 1 ; BULVERDE: Internal memory PM registers.
DCD 0x84200000, 0x4C000000, 1 ; BULVERDE: USB host controller.
DCD 0x84300000, 0x48000000, 1 ; BULVERDE: Memory controller.
DCD 0x84400000, 0x44000000, 1 ; BULVERDE: LCD controller.
DCD 0x84500000, 0x40000000, 32 ; BULVERDE: Memory-mapped registers (peripherals).
DCD 0x86500000, 0x3C000000, 64 ; BULVERDE: PCMCIA S1 common memory space.
DCD 0x8A500000, 0x38000000, 64 ; BULVERDE: PCMCIA S1 attribute memory space.
DCD 0x8E500000, 0x30000000, 32 ; BULVERDE: PCMCIA S1 I/O space.
DCD 0x90500000, 0x2C000000, 64 ; BULVERDE: PCMCIA S0 common memory space.
DCD 0x94500000, 0x28000000, 64 ; BULVERDE: PCMCIA S0 attribute memory space.
DCD 0x98500000, 0x20000000, 32 ; BULVERDE: PCMCIA S0 I/O space.
DCD 0x9A500000, 0xE0000000, 1 ; MAINSTONEII: Zero-bank (in reserved slot – no physical memory required).
DCD 0x9A600000, 0x14000000, 1 ; MAINSTONEII: nCS5: eXpansion board header.
DCD 0x9A700000, 0x10000000, 1 ; MAINSTONEII: nCS4: SMSC 91C111 Ethernet controller.
DCD 0x9A800000, 0x0A000000, 1 ; MAINSTONEII: nCS2 (upper half): 2MB SRAM.
DCD 0x9A900000, 0x08000000, 1 ; MAINSTONEII: nCS2 (lower half): Board registers (FPGA).
DCD 0x9AA00000, 0x04000000, 32 ; MAINSTONEII: nCS1: Secondary flash (32MB).
DCD 0x9CA00000, 0x00000000, 32 ; MAINSTONEII: nCS0: Boot Flash (32MB).
DCD 0x9EA00000, 0x50000000, 1 ; BULVERDE: Camera peripheral interface.
DCD 0x00000000, 0x00000000, 0 ; end of table

Can anyone please suggest what might the problem be.

Thanks in advance.

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GD Shukla

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