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#ifndef \_FDT\_H #define \_FDT\_H /\*

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#ifndef \_\_ASSEMBLY\_\_

#include <libfdt\_env.h>

```
struct fdt_header {
```

fdt32\_t magic; /\* magic word FDT\_MAGIC \*/

fdt32\_t totalsize; /\* total size of DT block \*/

fdt32\_t off\_dt\_struct; /\* offset to structure \*/

fdt32\_t off\_dt\_strings; /\* offset to strings \*/

fdt32\_t off\_mem\_rsvmap; /\* offset to memory reserve map \*/

fdt32\_t version; /\* format version \*/

fdt32\_t last\_comp\_version; /\* last compatible version \*/

/\* version 2 fields below \*/

fdt32\_t boot\_cpuid\_phys; /\* Which physical CPU id we're

booting on \*/

/\* version 3 fields below \*/

fdt32\_t size\_dt\_strings; /\* size of the strings block \*/

/\* version 17 fields below \*/

```
fdt32_t size_dt_struct; /* size of the structure block */
};
struct fdt_reserve_entry {
fdt64_t address;
fdt64_t size;
};
struct fdt_node_header {
fdt32_t tag;
char name[];
struct fdt_property {
fdt32_t tag;
fdt32_t len;
fdt32_t nameoff;
char data[];
};
#endif /*! ASSEMBLY */
#define FDT_MAGIC 0xd00dfeed /* 4: version, 4: total size */
#define FDT_TAGSIZE sizeof(fdt32_t)
#define FDT_BEGIN_NODE 0x1 /* Start node: full name */
#define FDT_END_NODE 0x2 /* End node */
#define FDT_PROP 0x3 /* Property: name off,
    size, content */
#define FDT_NOP 0x4 /* nop */
#define FDT_END 0x9
#define FDT_V1_SIZE (7*sizeof(fdt32_t))
#define FDT_V2_SIZE (FDT_V1_SIZE + sizeof(fdt32_t))
#define FDT_V3_SIZE (FDT_V2_SIZE + sizeof(fdt32_t))
#define FDT_V16_SIZE FDT_V3_SIZE
#define FDT_V17_SIZE (FDT_V16_SIZE + sizeof(fdt32_t))
#endif /* _FDT_H */
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\*/

#include "libfdt\_env.h"

#include <fdt.h>

#include <libfdt.h>

#include "libfdt\_internal.h"

```
int fdt_check_header(const void *fdt)
if (fdt_magic(fdt) == FDT_MAGIC) {
 /* Complete tree */
 if (fdt_version(fdt) < FDT_FIRST_SUPPORTED_VERSION)
 return -FDT_ERR_BADVERSION;
 if (fdt_last_comp_version(fdt) > FDT_LAST_SUPPORTED_VERSION)
 return -FDT_ERR_BADVERSION;
} else if (fdt_magic(fdt) == FDT_SW_MAGIC) {
 /* Unfinished sequential-write blob */
 if (fdt_size_dt_struct(fdt) == 0)
 return -FDT_ERR_BADSTATE;
} else {
 return -FDT_ERR_BADMAGIC;
return 0;
const void *fdt_offset_ptr(const void *fdt, int offset, unsigned int len)
const char *p;
if (fdt version(fdt) \geq 0x11)
 if (((offset + len) < offset)
   || ((offset + len) > fdt_size_dt_struct(fdt)))|
 return NULL;
p = _fdt_offset_ptr(fdt, offset);
if (p + len < p)
 return NULL;
return p;
}
uint32_t fdt_next_tag(const void *fdt, int startoffset, int *nextoffset)
const fdt32_t *tagp, *lenp;
uint32_t tag;
int offset = startoffset;
const char *p;
*nextoffset = -FDT_ERR_TRUNCATED;
tagp = fdt_offset_ptr(fdt, offset, FDT_TAGSIZE);
if (!tagp)
 return FDT_END; /* premature end */
tag = fdt32_to_cpu(*tagp);
offset += FDT_TAGSIZE;
```

```
*nextoffset = -FDT_ERR_BADSTRUCTURE;
switch (tag) {
case FDT_BEGIN_NODE:
 /* skip name */
 do {
 p = fdt_offset_ptr(fdt, offset++, 1);
 } while (p && (*p != '\0'));
 if (!p)
 return FDT_END; /* premature end */
 break;
case FDT_PROP:
 lenp = fdt_offset_ptr(fdt, offset, sizeof(*lenp));
 if (!lenp)
 return FDT_END; /* premature end */
 /* skip-name offset, length and value */
 offset += sizeof(struct fdt_property) - FDT_TAGSIZE
 + fdt32_to_cpu(*lenp);
 break;
case FDT_END:
case FDT_END_NODE:
case FDT_NOP:
 break;
default:
 return FDT_END;
}
if (!fdt_offset_ptr(fdt, startoffset, offset - startoffset))
 return FDT_END; /* premature end */
*nextoffset = FDT_TAGALIGN(offset);
return tag;
int _fdt_check_node_offset(const void *fdt, int offset)
if ((offset < 0) || (offset % FDT_TAGSIZE)
   || (fdt_next_tag(fdt, offset, &offset) != FDT_BEGIN_NODE))
 return -FDT_ERR_BADOFFSET;
return offset;
int _fdt_check_prop_offset(const void *fdt, int offset)
```

```
if ((offset < 0) || (offset % FDT_TAGSIZE)
   || (fdt_next_tag(fdt, offset, &offset) != FDT_PROP))
 return -FDT_ERR_BADOFFSET;
return offset;
int fdt_next_node(const void *fdt, int offset, int *depth)
int nextoffset = 0;
uint32_t tag;
if (offset \geq = 0)
 if ((nextoffset = _fdt_check_node_offset(fdt, offset)) < 0)</pre>
 return nextoffset;
do {
 offset = nextoffset;
 tag = fdt_next_tag(fdt, offset, &nextoffset);
 switch (tag) {
 case FDT_PROP:
 case FDT_NOP:
 break;
 case FDT_BEGIN_NODE:
 if (depth)
  (*depth)++;
 break;
 case FDT_END_NODE:
 if (depth && ((--(*depth)) < 0))
  return nextoffset;
 break;
 case FDT_END:
 if ((nextoffset >= 0)
   || ((nextoffset == -FDT_ERR_TRUNCATED) && !depth))
  return -FDT_ERR_NOTFOUND;
 else
  return nextoffset;
} while (tag != FDT_BEGIN_NODE);
return offset;
int fdt_first_subnode(const void *fdt, int offset)
```

```
int depth = 0;
offset = fdt_next_node(fdt, offset, &depth);
if (offset < 0 \parallel depth != 1)
 return -FDT_ERR_NOTFOUND;
return offset;
int fdt_next_subnode(const void *fdt, int offset)
int depth = 1;
 * With respect to the parent, the depth of the next subnode will be
 * the same as the last.
 */
do {
 offset = fdt_next_node(fdt, offset, &depth);
 if (offset < 0 \parallel depth < 1)
 return -FDT_ERR_NOTFOUND;
} while (depth > 1);
return offset;
}
const char *_fdt_find_string(const char *strtab, int tabsize, const char *s)
int len = strlen(s) + 1;
const char *last = strtab + tabsize - len;
const char *p;
for (p = strtab; p \le last; p++)
 if (memcmp(p, s, len) == 0)
 return p;
return NULL;
}
int fdt_move(const void *fdt, void *buf, int bufsize)
FDT_CHECK_HEADER(fdt);
if (fdt_totalsize(fdt) > bufsize)
 return -FDT_ERR_NOSPACE;
memmove(buf, fdt, fdt_totalsize(fdt));
return 0;
```

```
}
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LIBFDT_SRCS := $(addprefix lib/libfdt/, \
 fdt.c \
 fdt addresses.c \
 fdt_empty_tree.c \
 fdt_ro.c \
 fdt rw.c \
 fdt_strerror.c \
 fdt_sw.c \setminus
 fdt_wip.c) \
```

## 1.2 ATF v1.2 Marvell Patches 17.01.0

INCLUDES += -Iinclude/lib/libfdt

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# 1.3 Gobi Drivers SWI\_2.25

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1	/*
/	<u> </u>

FILE:

GobiSerial.c

**DESCRIPTION:** 

Linux Qualcomm Serial USB driver Implementation

#### PUBLIC DRIVER FUNCTIONS:

GobiProbe

GobiOpen

GobiClose

GobiReadBulkCallback

GobiSerialSuspend

GobiSerialResume (if kernel is less than 2.6.24)

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#### FILE:

GobiUSBNet.c

#### **DESCRIPTION:**

Qualcomm USB Network device for Gobi 3000

#### **FUNCTIONS:**

GobiNetSuspend

GobiNetResume

GobiNetDriverBind

GobiNetDriverUnbind

GobiUSBNetURBCallback

GobiUSBNetTXTimeout

GobiUSBNetAutoPMThread

GobiUSBNetStartXmit

GobiUSBNetOpen

GobiUSBNetStop

GobiUSBNetProbe

GobiUSBNetModInit

GobiUSBNetModExit

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# 1.4 mvpp2x (Marvell Ethernet Driver) 17.0.2

# 1.5 netmap 20120813

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The initial work to provide the UEFI implementation of Lua was done at Emulex Corporation.

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Release Derived Year Owner GPLfrom compatible? (1)

0.9.0 thru 1.2 1991-1995 CWI yes

1.3 thru 1.5.2 1.2 1995-1999 CNRI yes							
1.6	1.5.2	2000	CNRI	no			
2.0	1.6	2000	BeOpen.	com no			
1.6.1	1.6	2001	CNRI	yes (2)			
2.1	2.0+1.6	5.1 2001	PSF	no			
2.0.1	2.0+1.0	6.1 2001	PSF	yes			
2.1.1	2.1+2.0	0.1 2001	PSF	yes			
2.1.2	2.1.1	2002	PSF	yes			
2.1.3	2.1.2	2002	PSF	yes			
2.2 and al	ove 2.1	.1 200	01-now F	SF ves			

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from			compa	tible? (1
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1.5.2 1.2	199	5-1999	CNR	I yes
1.5.2	2000	CN	RI	no
1.6	2000	BeO	pen.co	m no
1.6	2001	CN	RI	yes (2)
2.0+1.6	.1 200	1 P	SF	no
2.0+1.6	5.1 200	1 F	PSF	yes
2.1+2.0	0.1 200	1 F	PSF	yes
2.1.1	2001	PSF	<sup>7</sup> y	res
2.1.1	2002	PS.	F :	yes
2.1.2	2002	PS.	F :	yes
2.2	2002	PSF	<sup>7</sup> y	res
2.2.1	2002	PS.	F :	yes
2.2.2	2003	PS.	F :	yes
2.2.2	2002-2	2003 F	PSF	yes
2.3	2002-2	2003 F	PSF	yes
2.3.1	2002-	2003	PSF	yes
2.3.2	2002-	2003	PSF	yes
2.3.3	2004	PS.	F :	yes
2.3.4	2005	PS.	F :	yes
2.3	2004	PSF	ye	es
2.4	2005	PSF	<sup>7</sup> y	res
2.4.1	2005	PS.	F :	yes
2.4.2	2006	PS.	F :	yes
2.4.3	2006	PS.	F :	yes
2.4	2006	PSF	ye	es
2.5	2007	PSF	<sup>7</sup> y	res
2.5.1	2008	PS.	F :	yes
2.5.2	2008	PS.	F :	yes
2.5	2008	PSF	ye	es
2.6	2008	PSF	<sup>7</sup> y	res
2.6.1	2009	PS.	F :	yes
2.6.2	2009	PS	F :	yes
2.6.3	2009	PS.	F :	yes
2.6.4	2010	PS	F :	yes
2.6	2010	PSF	ye	es
	from  11.2 1.5.2 1.5.2 1.6 1.6 2.0+1.6 2.0+1.1 2.1+2.0 2.1.1 2.1.1 2.1.2 2.2 2.2.1 2.2.2 2.3 2.3.1 2.3.2 2.3.3 2.3.4 2.3 2.4 2.4.1 2.4.2 2.4.3 2.4 2.5 2.5.1 2.5.2 2.5 2.6 2.6.1 2.6.2 2.6.3 2.6.4	from  1.2 1991 1.5.2 1.2 199 1.5.2 2000 1.6 2000 1.6 2001 2.0+1.6.1 2000 2.1+2.0.1 2000 2.1+2.0.1 2002 2.1.1 2002 2.1.2 2002 2.2 2002 2.2.1 2002 2.2.2 2002 2.2.2 2002 2.3.1 2002 2.3.2 2002 2.3.1 2002 2.3.2 2002 2.3.3 2004 2.3.4 2005 2.3.4 2005 2.3.4 2005 2.3.4 2005 2.4 2006 2.4 2006 2.4 2006 2.4 2006 2.4.3 2006 2.4.3 2006 2.4.3 2006 2.4.1 2005 2.4.2 2006 2.4.3 2006 2.5 2007 2.5.1 2008 2.5.2 2008 2.5.2 2008 2.6.1 2009 2.6.3 2009 2.6.3 2009 2.6.3 2009 2.6.4 2010	from  1.2 1991-1995 1.5.2 1.2 1995-1999 1.5.2 2000 CN 1.6 2000 BeO 1.6 2001 CN 2.0+1.6.1 2001 PS 2.0+1.6.1 2001 PS 2.1+2.0.1 2001 PS 2.1.1 2002 PS 2.1.2 2002 PS 2.2 2002 PS 2.2.2 2002 PS 2.2.1 2002 PS 2.2.2 2003 PS 2.2.2 2002-2003 PS 2.3.1 2002-2003 PS 2.3.1 2002-2003 PS 2.3.1 2002-2003 PS 2.3.2 2002-2003 PS 2.3.3 2004 PS 2.3.4 2005 PS 2.3.4 2005 PS 2.4 2005 PS 2.4 2005 PS 2.4 2005 PS 2.4 2006 PS 2.4.1 2005 PS 2.4.2 2006 PS 2.4.3 2006 PS 2.4.3 2006 PS 2.4.3 2006 PS 2.5.1 2008 PS 2.5.2 2008 PS 2.5.2 2008 PS 2.5.2 2008 PS 2.6.1 2009 PS 2.6.3 2009 PS 2.6.4 2010 PS 2.6.4 20	from compared to the compared

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## 1.8.1 Available under license:

From b0c3ba9ae15b9739856e17e59df90e532424e961 Mon Sep 17 00:00:00 2001

From: Marcin Wojtas <mw@semihalf.com> Date: Wed, 30 Nov 2016 16:00:05 +0100

Subject: [PATCH 183/199] ExtPkg: Update ext driver

```
+/**
+ * \file fsw efi edk2 base.h
+ * Base definitions for the EDK EFI Toolkit environment.
+ */
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```
+ */
+
+#ifndef _FSW_EFI_EDK2_BASE_H_
-
-/*
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+/\*\*

- + \* \file fsw\_lib.c
- + \* Core file system wrapper library functions.

\*/

/\*\_

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```
@@ -96,34 +82,6 @@ int fsw_strlen(struct fsw_string *s) return s->len;
```

-static const fsw\_u16 fsw\_latin\_case\_fold[] =

- /\* 0 \*/ 0xFFFF, 0x0001, 0x0002, 0x0003, 0x0004, 0x0005, 0x0006, 0x0007, 0x0008, 0x0009, 0x000A, 0x000B, 0x000C, 0x000D, 0x000E, 0x000F,
- /\* 1 \*/ 0x0010, 0x0011, 0x0012, 0x0013, 0x0014, 0x0015, 0x0016, 0x0017, 0x0018, 0x0019, 0x001A, 0x001B, 0x001C, 0x001D, 0x001E, 0x001F,
- $\ \ /*\ 2\ */\ 0x0020,\ 0x0021,\ 0x0022,\ 0x0023,\ 0x0024,\ 0x0025,\ 0x0026,\ 0x0027,\ 0x0028,\ 0x0029,\ 0x0029,\ 0x002B,\ 0x002C,\ 0x002D,\ 0x002E,\ 0x002F,$
- /\* 3 \*/ 0x0030, 0x0031, 0x0032, 0x0033, 0x0034, 0x0035, 0x0036, 0x0037, 0x0038, 0x0039, 0x003A, 0x003B, 0x003C, 0x003D, 0x003E, 0x003F,
- /\* 4 \*/ 0x0040, 0x0061, 0x0062, 0x0063, 0x0064, 0x0065, 0x0066, 0x0067, 0x0068, 0x0069, 0x006A, 0x006B,

0x006C, 0x006D, 0x006E, 0x006F,

- /\* 5 \*/ 0x0070, 0x0071, 0x0072, 0x0073, 0x0074, 0x0075, 0x0076, 0x0077, 0x0078, 0x0079, 0x007A, 0x005B, 0x005C, 0x005D, 0x005E, 0x005F,
- /\* 6 \*/ 0x0060, 0x0061, 0x0062, 0x0063, 0x0064, 0x0065, 0x0066, 0x0067, 0x0068, 0x0069, 0x006A, 0x006B, 0x006C, 0x006D, 0x006E, 0x006F,
- /\* 8 \*/ 0x0080, 0x0081, 0x0082, 0x0083, 0x0084, 0x0085, 0x0086, 0x0087, 0x0088, 0x0089, 0x008A, 0x008B, 0x008C, 0x008D, 0x008E, 0x008F,
- /\* 9 \*/ 0x0090, 0x0091, 0x0092, 0x0093, 0x0094, 0x0095, 0x0096, 0x0097, 0x0098, 0x0099, 0x009A, 0x009B, 0x009C, 0x009D, 0x009E, 0x009F,
- /\* A \*/ 0x00A0, 0x00A1, 0x00A2, 0x00A3, 0x00A4, 0x00A5, 0x00A6, 0x00A7, 0x00A8, 0x00A9, 0x00AA, 0x00AB, 0x00AC, 0x00AD, 0x00AE, 0x00AF,
- /\* B \*/ 0x00B0, 0x00B1, 0x00B2, 0x00B3, 0x00B4, 0x00B5, 0x00B6, 0x00B7, 0x00B8, 0x00B9, 0x00BA, 0x00BB, 0x00BD, 0x00BB, 0x00BF,
- /\* C \*/ 0x00C0, 0x00C1, 0x00C2, 0x00C3, 0x00C4, 0x00C5, 0x00E6, 0x00C7, 0x00C8, 0x00C9, 0x00CA, 0x00CB, 0x00CC, 0x00CD, 0x00CE, 0x00CF,
- /\* D \*/ 0x00F0, 0x00D1, 0x00D2, 0x00D3, 0x00D4, 0x00D5, 0x00D6, 0x00D7, 0x00F8, 0x00D9, 0x00DA, 0x00DB, 0x00DC, 0x00DD, 0x00FE, 0x00DF,
- /\* E \*/ 0x00E0, 0x00E1, 0x00E2, 0x00E3, 0x00E4, 0x00E5, 0x00E6, 0x00E7, 0x00E8, 0x00E9, 0x00EA, 0x00EB, 0x00ED, 0x00ED, 0x00EF,
- $\ /*\ F*/\ 0x00F0,\ 0x00F1,\ 0x00F2,\ 0x00F3,\ 0x00F4,\ 0x00F5,\ 0x00F6,\ 0x00F7,\ 0x00F8,\ 0x00F9,\ 0x00FA,\ 0x00FB,\ 0x00FD,\ 0x00FE,\ 0x00FF,$

```
-};
-
-fsw_u16 fsw_to_lower(fsw_u16 ch)
-{
- if (ch < 0x0100)
- return fsw_latin_case_fold[ch];
- return ch;
-}
-
/**
* Compare two strings for equality. The two strings are compared, taking their
* encoding into account. If they are considered equal, boolean true is returned.
@@ -247,7 +205,7 @@ fsw_status_t fsw_strdup_coerce(struct fsw_string *dest, int type, struct fsw_str}

/**
```

- \* Splits a string at the first occurrence of the separator character.
- + \* Splits a string at the first occurence of the separator character.
- st The buffer string is searched for the separator character. If it is found, the
- \* element string descriptor is filled to point at the part of the buffer string
- \* before the separator. The buffer string itself is adjusted to point at the

diff --git a/ExtPkg/ExtPkgDxe/fsw\_strfunc.h b/ExtPkg/ExtPkgDxe/fsw\_strfunc.h

index 61cf25d..26408b0 100644

--- a/ExtPkg/ExtPkgDxe/fsw\_strfunc.h

```
+++ b/ExtPkg/ExtPkgDxe/fsw_strfunc.h
@@ -1.22 +1.37 @@
-/* $Id: fsw_strfunc.h 29125 2010-05-06 09:43:05Z vboxsync $ */
-/** @file
- * fsw strfunc.h
- */
+/* fsw strfunc.h generated by mk fsw strfunc.py */
-/*
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```

```
-/* fsw_strfunc.h generated by mk_fsw_strfunc.py */

static int fsw_streq_ISO88591_UTF8(void *s1data, void *s2data, int len)
{
    int i;
    @@ -43,7 +58,6 @@ static int fsw_streq_ISO88591_UTF8(void *s1data, void *s2data, int len)
    return 1;
}

-#ifndef HOST_EFI
static int fsw_streq_ISO88591_UTF16(void *s1data, void *s2data, int len)
{
    int i;
    @@ -59,7 +73,6 @@ static int fsw_streq_ISO88591_UTF16(void *s1data, void *s2data, int len)
    }
    return 1;
}

-#endif

static int fsw_streq_ISO88591_UTF16_SWAPPED(void *s1data, void *s2data, int len)
{
    --
    2.7.4
```

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