

# BIOS update/crisis disk for BEETLE with i815 standard motherboard (D2/D2\*) release "WN STD 0B/22"

## Contents of DOWNLOAD.ZIP:

<b>D2UPDATE0B22ARJ.EXE</b>	Selfextracting archive of flash <b>update disk</b> for MS-DOS Needs a prepared bootable floppy or MemCard
<b>D2UPDATE0B22IMG.EXE</b>	Directly creates a bootable flash <b>update disk</b> on 1,44MB/3,5" floppy. To be used with Windows only.
<b>D2UPDATE0B22DD.BIN</b>	Floppy image file of flash <b>update disk</b> for Linux; to be extracted by: <code>"dd if=filename of=/dev/fd0"</code>
<b>D2CRISIS0B22ARJ.EXE</b>	Selfextracting archive of flash <b>crisis disk</b> for MS-DOS Needs a prepared bootable floppy or MemCard
<b>D2CRISIS0B22IMG.EXE</b>	Directly creates a bootable flash <b>crisis disk</b> on 1,44MB/3,5" floppy To be used with Windows only.
<b>D2CRISIS0B22DD.BIN</b>	Floppy image file of flash <b>crisis disk</b> for Linux; to be extracted by: <code>"dd if=filename of=/dev/fd0"</code>
<b>README.HTM</b>	This information

## Please read these remarks first, before downloading and extracting ZIP file ...

- This release is not valid for D2 basic motherboard !
- **THIS RELEASE IS NEEDED, IF YOU WANT TO PERFORM AUTOMATIC UPDATE OF BEETLE BIOS RELEASES OVER INTERNET.** The in future (higher than 0B/22) BIOS releases of D2 STD BIOS will also be available as an BEETLE VIEW update package, provided in www - you need to update to this release before!
- **Some new features of the update procedure (UPBIOS.EXE) rel. 3.1:**  
If any of these advanced features is wanted, you need to adapt the update floppy disk! See chapter ["How to use flashtool UPBIOS.EXE"](#) for further information about options.

The main feature of this release is the **automatic start of BIOS update after bootup of floppy!** You are not prompted to confirm flash update, but you may abort the automatic procedure, when asked.

It provides **output to external line displays** for BEETLE with or without VGA adapter.

Another new feature of update procedure is the support of **CMOS setup data save/restore**. You can set setup options as wanted, than create an image file of BIOS setup data and after easily write the certain settings from image file to CMOS memory while BIOS flash update procedure!

- **The binary floppy disk image D2\*DD.BIN, is made for Linux.** Use command with default parameters, to write image to target floppy.
- **The floppy disk image D2\*IMG.EXE, is made for Windows only.** The WinImage executable does not run under DOS! Use the D2\*ARJ.EXE selfextractor, if flash disk needs to be created with DOS .
- **The selfextracting ARJ archives (D2\*ARJ.EXE), are basicly made for DOS.**  
But they do extract all data under Windows as well.

The UPDATE archive extracts files directly to a floppy in drive A:  
The CRISIS archive extracts files to folder C:\CRISIS

Note, you need to rename the archive file to "8.3 format" before running it on a DOS BEETLE. It is good practise to store and run the ARJ selfextractor in root folder, because it is a DOS based tool which does not support long folderpaths !!!

You alyways need to prepare the update disk before: run "format a:  
/s".

- **If there is a power fail during programming or BIOS update failed by other reasons,** use the CRISIS DISK for recovery. To be found in the same DOWNLOAD.ZIP file.

If Windows is your operating system, you need to use the crisis disk image D2CRISIS\*IMG.EXE to create a crisis boot disk!

DOS based systems require the ARJ self extracting archive, which The extracts to folder "c:\crisis". Use "C:\CRISIS\CRISDISK.BAT" to build a crisis disk. You do need to boot up a DOS system - *this can not be done in a Windows command box!* Since a certain minimal, non standard DOS (without screen output) is needed for crisis recovery, do not use DOS commands "format" or "sys". *Detailed information you also find in **README.TXT** in archives / image files.*

- **If a flash update from a BEETLE card (SRAM memory cards) is wanted,** you first need to make the MC bootable (DOS), than use self extracting archive, to create the flash update disk.
- **DMI data will not be initialized while flash update,** like some previous BIOS releases did. Therefore BEETLE serial numbers and other entries will remain!
- **When older BIOS releases (before 07/16) need to be flashed,** you need the firmware hub patch. This tool is placed in the same download area, where you found this BIOS update. See expired releases "Additional FIRMWARE HUB PATHCH for expired BIOS releases".

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## How to use flashtool of "UPBIOS"

This information is also placed in `README_3.TXT` on floppy!!

### **General:**

"Upbios 3.x" is designed for easy support of Phoenix(R) "phlash.exe" flashtool. Update procedure is running automatically, configurable via "upbios.cfg" configurationfile and via arguments from commandline. All messages are minimized and optimized for use of 2x20 lines display. No need of keyboard input, but abort of procedure is possible. Beep support is provided for abort option (one doublebeep), successful operation (two doublebeeps), error messages (three doublebeeps).

UPBIOS.EXE is used for flash update of POS BIOS and also STD BIOS !

Options are selectable from commandline. It might be useful to create an "autoexec.bat" providing the complete commandline.

Configuration is done via "upbios.cfg" configurationfile.

### **Options:**

Calling syntax:

```
upbios [com3] [cdump] [cload] [t] [q] [p] [m n] [over]
[anyway]
```

Any options may be mixed, but if `cdump` is selected, no Bios update will be done.

Note: Options from commandline will override appropriate keyword properties in "upbios.cfg".

<code>upbios:</code>	Bios update using "upbios.cfg"
<code>com3:</code>	if BA6x on COM3 is available, screen output will be redirected to COM3.
<code>cdump:</code>	make a CMOS-copy of actual system into "cmosdump.img". No Bios update will be done.
<code>cload:</code>	Before Bios update, CMOS of actual system will be loaded from "cmosdump.img"
<code>t:</code>	(t)estmode for debugging problems only, no Bios update will be done.
<code>q:</code>	(q)uickmode is waiting between 2-line-messages and beeps will be overrun
<code>p:</code>	(p)roduction mode does not use Phoenix(R) screening while flashing (always used with com3-option)
<code>m n:</code>	(m)ode: force flashmode n overrides automatic mode recognition:  if n=1, flashes DMI area only if n=4, flashes BIOS area only if n=5, flashes BIOS + DMI if n=6, flashes BIOS + Bootblock if n=7, flashes BIOS + Bootblock + DMI
<code>over:</code>	(o)verwrite ignores message "->no update needed" and reflash Bios, but without clearing checksum of CMOS; so, Setup will NOT reset to default values.
<code>anyway:</code>	ignore errormessages from upbios that would abort Bios update

any other option will break and display options available.

**Configuration:**

Configuration is done via "upbios.cfg". Keywords must begin in

coloumn 0 and spell exactly til ":". Arguments have to follow immediately. Number and order of lines do not matter. Keywords work as follows:

must-be-keys:

=====

biosversion: ID of new biosversion to be flashed  
bootblock: ID of new bootblock to be flashed  
Note: Before flashing, upbios.exe will compare both IDs from old Bios and new Bios. If both IDs are identical, update will be aborted.  
must-be-keys may be defined by Bios development only!

optional-keys:

=====

cmosversion:  
CMOS checksum will not be cleared, if found biosversion of previous Bios is equal or higher to value of cmosversion. Superior condition is BIOS does not detect any checksum error after reboot. Keyword may be defined by Bios development only!

dmiversion:  
DMI data will be initialized, if found biosversion of previous Bios is lower to value of dmiversion.

testversion:  
set by Bios development only to message testversions to be flashed.

testflag:  
set by Bios development only to debug problems. Will be OR-ed with "t" option.

production:  
"1" inhibits Phoenix(R) Phlash-Interface. Will be OR-ed with "p" option.

ramdisk:  
Will install a ramdisk and run upbios.exe from installed ramdisk. (Drive c: to o:)

modeflag:  
overrides automatic mode recognition:  
if 1, flashes DMI area only  
if 4, flashes BIOS area only  
if 5, flashes BIOS + DMI  
if 6, flashes BIOS + Bootblock  
if 7, flashes BIOS + Bootblock + DMI

### **Security:**

After calling upbios.exe all needed files are checked to be available. Using option "cload", writing to CMOS area is possible only, if header of "cmosdump.img" corresponds to system platform and biosversion to be flashed. Otherwise upbios.exe breaks and reports error.

Hardware platforms (D1, D2, E1) are checked via bootblock check to avoid system breakdown after flashing with Bios that is not designed for that hardware.

Crossover flashing from STD/POS(D2)-Bios to BAS(D2)-Bios (and reverse) is not possible.

**BackFlashing:**

D2-CPU:  
=====

STD Bios 06/12 and later can not be flashed back to versions earlier to 06/12, as DMI data area would be corrupted. Errormessage may be overridden with commandline option "anyway" or interactively by request.

If hardware is detected to be a D2Star-CPU, Bios will be flashed only if appropriate Biosversion is available. This is mandatory due to proper operation.

Appropriate Biosversions are:

for D2Star-Standard board: WN STD 09/19 (D2) and higher  
WN POS 27/11 (D2) and higher

for D2Star-Basic board: WN BAS 42/14 (D2) and higher

**Plausibility:**

Bootblock IDs of old and new Bios are checked. Bootblock will be flashed only if ID's are different. If bootblock flashing is needed and bootblock is write-protected, system will be unlocked and rebooted.

DMI data area will be checked and reflashed only, if actual DMI data area is corrupted or not available (flashing from POS to STD Bios). In addition option "dmiversion" will determine when to initialize DMI data area during Bios upgrade.

Flashing from STD to POS Bios will generate DMI errormessage.

Errormessage may be overridden with commandline option "anyway" or interactively by request.

CMOS Checksum will not be cleared, if  
- the "cload" option was used OR  
- the "cmosversion:"-parameter in "upbios.cfg" is equal or

higher to biosversion ID found in actual system.  
Not clearing the CMOS checksum will prevent system from asking for F1 or F2 keys during first boot after reflashing and will preserve systems actual configuration.

Upbios.exe will report success and will NOT reflash Bios, if biosversion and bootblockversion found in actual system correspond to the values of must-be-keys in "upbios.cfg".

**Commandline examples:**

"upbios"  
: normal call using "upbios.cfg" for configuration,  
no options

"upbios com3"  
: as before, using display on COM3 if available

"upbios cdump"  
: creating CMOS-image from actual system, no Bios  
update

"upbios cload"  
: load CMOS-image (if available) into CMOS,  
followed by Bios update

"upbios cload q p"  
: load CMOS-image (if available) into CMOS,  
followed by Bios update; no beeps, no waiting  
during  
text scrolling, no Phoenix Phlash-Screen;  
fastest way of Bios update inclusive Setup  
configuration

"upbios m 7"  
: disable automatic flashmode, forcing  
BIOS+Bootblock+DMI  
to be flashed

"upbios anyway"  
: run upbios ignoring all possible errormessages

**Example configfile "upbios.cfg"**

```
#####
# Note: The configuration area for any biosversion
#       will alyways be defined by Bios development!
#####
#
#
#####
# UPBIOS [com3] [cdump | cload]
# =====
# com3 : use display connected to COM3 if available
# cdump: create CMOSDUMP.IMG from actual system
# cload: update Bios and load CMOS with CMOSDUMP.IMG
#
#####
#
#remove leading #-characters to activate keywords.
#
#needed=====
#
#biosversion:WN XXX aa/bb  new BIOS ID
#bootblock:X/Y             new BB ID
#
#optional=====
#
#cmosversion:aa/bb        no CMOS checksum clearing, if updating
#                          from Biosversion aabb or higher
#dmiversion:aa/bb         no DMI data area clearing, if updating
#                          from Biosversion aabb or higher
#testversion:             any string
#testflag:0              if 1, messaging variables and
preventing flashing
#production:0            if 1, does not use Phoenix Phlash
Interface
#ramdisk:0               if 1, uses Ramdisk for Update
#modeflag:x              overrides automatic mode recognition:
#   0
#   1                    flashes DMI area only
#   4                    flashes BIOS area only
#   5                    flashes BIOS + DMI
#   6                    flashes BIOS + Bootblock
#   7                    flashes BIOS + Bootblock + DMI
#
#####

#####
# Configuration area:
#####
biosversion:WN STD 08/18
bootblock:2SA

dmiversion:03/06
cmosversion:07/16
production:1
```

## History of STD BIOS releases for BEETLE D2/D2\* standard motherboard (i815):

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RELEASE INFO 0B/22 ( for internal user: see also ECO )

---

1. Based on Release No.: 0A/20

2. Requirements/Dependencies

Subpoints: Hardware

- This Bios 0B/22 is suited to run on "D2\* Tualatin Board Print D" and later, which MUST use any BIOS from 09/19 and later to run properly.
- This BIOS 0B/22 is compliant to former D2\* Tualatin Board prints and also to "D2 Standard Boards Print E" and later

Software - none

3. Removed Errors/Error-No.:

- BIOS
  - Fixed problem with touchpad hangup running TA59 under WIN2000
  - During bootup messages directed to BA6x-displays (connected to COM3) will be cut to 20 characters per line avoiding to long periods of closed

interrupts.

- SETUP
  - none

4. New Functions/enhanced Functions

- BIOS
  - First Biosversion that might be upgraded to higher versions using RemoteFlash under Windws OS
  - Locking of BootBlock Protection removed due to the need of RemoteFlashing Managing
  - No waiting for F1/F2 keys when CMOS values were loaded with default values after CMOS checksum error. This is necessary due to RemoteFlash of Bios.
  - Support of COM-Interface POS/485
- SETUP
  - Saving order of bootdevices when bootdevice is removed. Bootorder will be restored to saved order, if removed bootdevice will be added some time later. (Useful for booting from USB-Memorystick)

## 5.Functions under development

- none

## 6.Additional remarks

- This BIOS works for BEETLE CPU Pentium (D2-CPU), acting  
as Standard Version to support standard applications.  
It will come up with the following signon text:

```
WN STD 0B/22 (D2)
10/22/2003
```

Use D2BIOS0B.EXE to create a BIOS-Update-Floppy.  
Use D2CRIS0B.EXE to create a BIOS-Recovery-Floppy.

Note: Upgrading this Bios from version 0A/20 will not  
reset CMOS Setup to default values, as CMOS map of both  
versions are identical.

- Checksum: BDA4h
- ECO: 017 3093 03
- MODULNO1: 1750033326
- PROMSETPN: A3C80100352
- RAWMATPN: A3C40027674
- LABELTEXT: 003530B01-BDA4h
- PROGR-FORMAT: INTEL MCS-86HEX

After corrupted checksum the BIOS will set its default to  
the following values:

```
Main
====
Diskette A: 1.44 MB
Diskette B: Disabled

>Primary Master: Auto
>Primary Slave: Auto
>Secondary Master: Auto
>Secondary Slave: Auto

Advanced
=====
Reset Configuration Data: No
Speaker Volume High
PS/2 Mouse: Disabled
Large Disk Access Mode: DOS
Legacy USB Support: Disabled
USB TimeOut Value: High
Onboard LAN BootProm: Enabled
QuickBoot Mode: Disabled
(Video output to COM3 Disabled)

>Chipset Configuration
Local Bus IDE adapter: Both
SMART Device Monitoring: Disabled
ISA graphics device: No
Boot-Video device: Onboard
PCI 2.1 Support: Enabled

>I/O Device Configuration
```

```
Serial Port A:           Enabled
  Base I/O address / IRQ: 3F8/IRQ4
Serial Port B:           Enabled
  Base I/O address / IRQ: 2F8/IRQ3
Parallel Port:          Enabled
  Mode:                  Bi-directional
  Base I/O address:      378

TouchScreen Routing:    No Routing
  (IRQ-Routing COM3 COM4)  COM3_I10  COM4_I10)
```

## &gt;PCI/PNP ISA UMB Region Exclusion

```
Bios Internal Buffer:    E000 - E3FF

CC00 - CFFF:            Available
D000 - D3FF:            Available
D400 - D7FF:            Available
D800 - DBFF:            Available
DC00 - DFFF:            Available
```

## &gt;PCI/PNP ISA IRQ Resource Exclusion

```
IRQ 3:                  Available
IRQ 4:                  Available
IRQ 5:                  Available
IRQ 7:                  Available
IRQ 9:                  Reserved (see ATTENTION ->)
IRQ 10:                 Reserved (see ATTENTION ->)
IRQ 11:                 Available
IRQ 12:                 Available
```

## &gt;DMI Event Logging

```
Clear all DMI event logs: No
Event Logging:           Enabled
```

## Security

=====

```
Set Supervisor Password Enter
(Processor Serial Number) Disabled
```

## Power

=====

```
Power State:            Stay Off

Power Savings:          Disabled

Resume On Time:         Disabled
Resume Time:            00:00:00

Wakeup On Modem Ring:   Disabled

Wake Up On LAN:         Disabled
```

## &gt;Hardware Monitor

## Boot

=====

```
+Removable Devices
+Hard Drive
CD-Rom Drive
Network Boot
```

1. Based on Release No.: 09/19

2. Requirements/Dependences

Subpoints: Hardware - This actual Bios is suited to run on

"D2\* Tualatin Board Print D" and later, which MUST use any BIOS from 09/19 and later to run properly.

- This actual BIOS is compliant to former D2\* Tualatin Board prints and also to "D2 Standard Boards Print E" and later

Software - none

3. Removed Errors/Error-No.:

- BIOS
  - Fixed problems with systems behaviour after power failure / power return. (Power State: "Stay Off" and "Follow AC/Power")
  - Added support for IBM X-25 Interface
- SETUP
  - none

4. New Functions/enhanced Functions

- BIOS
  - replaced fixed value of temperature limit for starting processor-throttlemode with processor-dependant values due to data sheet
  - Included latest version of Intel Boot Agent PXE 4.1.10
- SETUP
  - new entry:  
"Advanced // PCI/PNP ISA UMB Region Exclusion":  
"Bios Internal Buffer:"  
This selector allows limiting available UMB area to DBFFh or DFFFh, thus freeing up memory addresses especially needed by customers add-on-cards. So, resources problems with "Dotcard 550" or "IDE Raid Controller" can be solved within one Bios version.

5. Functions under development/enhanced Functions

- none

6. Additional remarks

- This BIOS works for BEETLE CPU Pentium (D2-CPU), acting as Standard Version to support standard applications. It will come up with the following signon text:

WN STD 0A/20 (D2)  
06/20/2003

Use D2BIOS0A.EXE to create a BIOS-Update-Floppy.  
Use D2CRIS0A.EXE to create a BIOS-Recovery-Floppy.

- Checksum: 76F6h

```
- ECO:          017 1748 03
- MODULNO1:    1750033326
- PROMSETPN:   A3C80100352
- RAWMATPN:    A3C40027674
- LABELTEXT:   003530A01-76F6h
- PROGR-FORMAT: INTEL MCS-86HEX
```

After corrupted checksum the BIOS will set its default to the following values:

#### Main

====

```
Diskette A:          1.44 MB
Diskette B:          Disabled
```

```
>Primary Master:    Auto
>Primary Slave:     Auto
>Secondary Master:  Auto
>Secondary Slave:   Auto
```

#### Advanced

=====

```
Reset Configuration Data:  No
Speaker Volume             High
PS/2 Mouse:                Disabled
Large Disk Access Mode:   DOS
Legacy USB Support:        Disabled
USB TimeOut Value:         High
Onboard LAN BootProm:      Enabled
QuickBoot Mode:            Disabled
(Video output to COM3      Disabled)
```

#### >Chipset Configuration

```
Local Bus IDE adapter:     Both
SMART Device Monitoring:   Disabled
ISA graphics device:       No
Boot-Video device:         Onboard
PCI 2.1 Support:           Enabled
```

#### >I/O Device Configuration

```
Serial Port A:             Enabled
Base I/O address / IRQ:    3F8/IRQ4
Serial Port B:             Enabled
Base I/O address / IRQ:    2F8/IRQ3
Parallel Port:             Enabled
Mode:                       Bi-directional
Base I/O address:          378
```

```
TouchScreen Routing:       No Routing
(IRQ-Routing COM3 COM4     COM3_I10 COM4_I10)
```

#### >PCI/PNP ISA UMB Region Exclusion

```
Bios Internal Buffer:       E000 - E3FF

CC00 - CFFF:               Available
D000 - D3FF:               Available
D400 - D7FF:               Available
D800 - DBFF:               Available
DC00 - DFFF:               Available
```

#### >PCI/PNP ISA IRQ Resource Exclusion

```
IRQ 3:                     Available
```

```
IRQ 4: Available
IRQ 5: Available
IRQ 7: Available
IRQ 9: Reserved (see ATTENTION ->)
IRQ 10: Reserved (see ATTENTION ->)
IRQ 11: Available
IRQ 12: Available
```

```
>DMI Event Logging
Clear all DMI event logs: No
Event Logging: Enabled
```

## Security

=====

```
Set Supervisor Password          Enter
(Processor Serial Number)        Disabled
```

## Power

=====

```
Power State: Stay Off
```

```
Power Savings: Disabled
```

```
Resume On Time: Disabled
```

```
Resume Time: 00:00:00
```

```
Wakeup On Modem Ring: Disabled
```

```
Wake Up On LAN: Disabled
```

## &gt;Hardware Monitor

## Boot

=====

```
+Removable Devices
+Hard Drive
CD-Rom Drive
Network Boot
```

---

RELEASE INFO 09/19 ( for internal user: see also ECO )

---

1. Based on Release No.: 08/18

## 2. Requirements/Dependences

## Hardware

- "D2\* Tualatin Board Print D" and later  
MUST use this BIOS 09/19 and later to  
run properly
- This BIOS 09/19 is compliant to former  
D2\* Tualatin Board prints and also to  
"D2 Standard Boards Print E" and later

## Software

- none

## 3. Removed Errors/Error-No.:

## BIOS

- Optimized DRAM BufferStrength for "Print D"
- Fixed hangup problems with SanDisk  
CompactFlashReader

- Fixed problem when using Dotcard 550 with Win2000

## SETUP

- ISA UMB Region Exclusion: removed addresses D800h - DFFFh due to UMB reorganisation necessary for DMI data handling and Dotcard 550 issue

## 4.New Functions/enhanced Functions

## BIOS

- none

## SETUP

- Infoscreen introduced for easy check of
  - Productname
  - Biosversion
  - Chipset\_RevID
  - DMI entry of serialnumber (System, Mainboard and Powersupply)
- New Submenu:
  - Advanced / ChipsetConfiguration
- New Entry:
  -

Advanced / ChipsetConfiguration: PCI 2.1 Support

## 5.Functions under development/enhanced Functions

- none

## 6.Additional remarks

- This BIOS works for BEETLE CPU Pentium (D2-CPU), acting as Standard Version to support standard applications. It will come up with the following signon text:

WN STD 09/19 02/28/2003 (D2)

- Checksum: A01Bh
- ECO: 017 0589 03
- MODULNO1: 1750033326
- PROMSETPN: A3C80100352
- RAWMATPN: A3C40027674
- LABELTEXT: 003530901-A01Bh
- PROGR-FORMAT: INTEL MCS-86HEX

After corrupted checksum the BIOS will set its default to the following values:

## Main

====

Diskette A: 1.44 MB  
Diskette B: Disabled

>Primary Master: Auto  
>Primary Slave: Auto  
>Secondary Master: Auto  
>Secondary Slave: Auto

## Advanced

=====

```
Reset Configuration Data:      No
Speaker Volume                 High
PS/2 Mouse:                   Disabled
Large Disk Access Mode:      DOS
Legacy USB Support:           Disabled
USB TimeOut Value:            Low
Onboard LAN BootProm:         Enabled
QuickBoot Mode:               Disabled
(Video output to COM3)       Disabled)

>Chipset Configuration
  Local Bus IDE adapter:       Both
  SMART Device Monitoring:     Disabled
  ISA graphics device:        No
  Boot-Video device:          Onboard
  PCI 2.1 Support:             Enabled

>I/O Device Configuration
  Serial Port A:               Enabled
  Base I/O address / IRQ:     3F8/IRQ4
  Serial Port B:               Enabled
  Base I/O address / IRQ:     2F8/IRQ3
  Parallel Port:               Enabled
  Mode:                         Bi-directional
  Base I/O address:            378

  TouchScreen Routing:         No Routing
  (IRQ-Routing COM3 COM4)     COM3_I10   COM4_I10)

>PCI/PNP ISA UMB Region Exclusion
  CC00 - CFFF:                 Available
  D000 - D3FF:                 Available
  D400 - D7FF:                 Available

>PCI/PNP ISA IRQ Resource Exclusion
  IRQ 3:                       Available
  IRQ 4:                       Available
  IRQ 5:                       Available
  IRQ 7:                       Available
  IRQ 9:                       Reserved (see ATTENTION ->)
  IRQ 10:                      Reserved (see ATTENTION ->)
  IRQ 11:                      Available
  IRQ 12:                      Available

>DMI Event Logging
  Clear all DMI event logs:    No
  Event Logging:               Enabled

Security
=====
Set Supervisor Password       Enter
(Processor Serial Number)     Disabled

Power
=====
Power State:                   Stay Off

Power Savings:                 Disabled

Resume On Time:                Disabled
Resume Time:                    00:00:00

Wakeup On Modem Ring:          Disabled

Wake Up On LAN:                Disabled

>Hardware Monitor
```

Boot  
====  
+Removable Devices  
+Hard Drive  
CD-Rom Drive  
Network Boot

---

RELEASE INFO 08/18 ( for internal user: see also ECO )

---

1. Based on Release No.: 07/16

2. Requirements/Dependences

Hardware

- D2-Motherboard Print E and later
- "D2\* Tualatin Board Print C" and later  
must use this BIOS 07/16 and later to  
run properly

Software

- none

3. Removed Errors/Error-No.:

- BIOS
  - fixed sporadic problem with R/W-access to NVRAM.

4. New Functions/enhanced Functions

- none

5. Functions under development/enhanced Functions

- none

6. Additional remarks

- This BIOS works for BEETLE CPU Pentium (D2-CPU), acting as  
Standard Version to support standard applications.  
It will come up with the following signon text:

WN STD 08/18 02/10/2003 (D2)

- Checksum: 7C88h
- ECO: 017 0356 03
- MODULNO1: 1750033326
- PROMSETPN: A3C80100352
- RAWMATPN: A3C40027674
- LABELTEXT: 003530801-7C88h
- PROGR-FORMAT: INTEL MCS-86HEX

After corrupted checksum the BIOS will set its default to  
the following values:

Main

====

Diskette A: 1.44 MB  
Diskette B: Disabled

>Primary Master: Auto

```
>Primary Slave:           Auto
>Secondary Master:       Auto
>Secondary Slave:       Auto

Advanced
=====
Reset Configuration Data: No
Speaker Volume           High
Local Bus IDE adapter:   Both
SMART Device Monitoring: Disabled
PS/2 Mouse:             Disabled
Large Disk Access Mode: DOS
Legacy USB Support:      Disabled
USB TimeOut Value:      Low
ISA graphics device:    No
Boot-Video device:      Onboard
Onboard LAN BootProm:   Enabled
QuickBoot Mode:         Disabled

>I/O Device Configuration
  Serial Port A:         Enabled
    Base I/O address / IRQ: 3F8/IRQ4
  Serial Port B:         Enabled
    Base I/O address / IRQ: 2F8/IRQ3
  Parallel Port:        Enabled
    Mode:                Bi-directional
    Base I/O address:    378

  TouchScreen Routing:  No Routing
  (IRQ-Routing COM3 COM4 COM3_I10 COM4_I10)

>PCI/PNP ISA UMB Region Exclusion
  CC00 - CFFF:          Available
  D000 - D3FF:          Available
  D400 - D7FF:          Available
  D800 - DBFF:          Available
  DC00 - DFFF:          Available

>PCI/PNP ISA IRQ Resource Exclusion
  IRQ 3:                Available
  IRQ 4:                Available
  IRQ 5:                Available
  IRQ 7:                Available
  IRQ 9:                Reserved (see ATTENTION ->)
  IRQ 10:               Reserved (see ATTENTION ->)
  IRQ 11:               Available
  IRQ 12:               Available

>DMI Event Logging
  Clear all DMI event logs: No
  Event Logging:        Enabled
  (Video output to COM3 Disabled)

Security
=====
Set Supervisor Password Enter
(Processor Serial Number) Disabled

Power
=====
Power State:           Stay Off

Power Savings:         Disabled

Resume On Time:        Disabled
Resume Time:           00:00:00
```

Wakeup On Modem Ring: Disabled

Wake Up On LAN: Disabled

>Hardware Monitor

Boot

====

+Removable Devices

+Hard Drive

CD-Rom Drive

Network Boot

---

RELEASE INFO 07/16 ( for internal user: see also ECO )

---

1. Based on Release No.: 06/13

2. Requirements/Dependences

Subpoints: Hardware - D2-Motherboard Print E and later

- "D2\* Tualatin Board Print C" and later must use this BIOS 07/16 and later to run properly

- Software  
Before flashing back BIOS from 07/16 to earlier versions read file "fwhpazch.txt" located on root of BIOS Update Diskette

3. Removed Errors/Error-No.:

- BIOS
- OS/2 system is able to boot
- fixed sporadic problems with display at first booting after BIOS update

4. New Functions/enhanced Functions

- BIOS:
  - DMI information located below 1MB area, avoiding problems using any DMI related tools
  - providing latest microcode for Tualatin processor
  - supporting video mode for Plasma Display "848x480 sync positiv" when using video jumpering #6 (open, open, closed)
- SETUP:
  - deleted entry:  
Advanced/IODeviceConfiguration:  
"Floppy Disk Controller: [Enabled/Disabled]"  
FDC will be configured automatically depending on "Legacy Diskette A:" and "Legacy Diskette B"
  - new entry:  
Advanced:  
"USB TimeOut Value: [Low/High]"  
Selecting [Low] will cut waiting time during POST to initialize USB devices with no need to wait for long spin up time, i.e. CompactFlash

5. Functions under development/enhanced Functions

- none

#### 6.Additional remarks

- This BIOS works for BEETLE CPU Pentium (D2-CPU), acting as Standard Version to support standard applications.  
It will come up with the following signon text:

```
WN STD 07/16 (D2)
09/27/2002
```

- Checksum: 784Ch
- ECO: 017 2246 02
- MODULNO1: 1750033326
- PROMSETPN: A3C80100352
- RAWMATPN: A3C40027674
- LABELTEXT: 003530701-784Ch
- PROGR-FORMAT: INTEL MCS-86HEX

After corrupted checksum the BIOS will set its default to the following values:

```
      Main
      ====
Diskette A: 1.44 MB
Diskette B: Disabled
```

```
>Primary Master: Auto
>Primary Slave: Auto
>Secondary Master: Auto
>Secondary Slave: Auto
```

```
      Advanced
      =====
Reset Configuration Data: No
Speaker Volume High
Local Bus IDE adapter: Both
SMART Device Monitoring: Disabled
PS/2 Mouse: Disabled
Large Disk Access Mode: DOS
Legacy USB Support: Disabled
USB TimeOut Value: Low
ISA graphics device: No
Boot-Video device: Onboard
Onboard LAN BootProm: Enabled
QuickBoot Mode:      Disabled
```

```
>I/O Device Configuration
  Serial Port A: Enabled
    Base I/O address / IRQ: 3F8/IRQ4
  Serial Port B: Enabled
    Base I/O address / IRQ: 2F8/IRQ3
  Parallel Port: Enabled
    Mode: Bi-directional
    Base I/O address: 378
```

```
  TouchScreen Routing: No Routing
  (IRQ-Routing COM3 COM4 COM3_I10  COM4_I10)
```

```
>PCI/PNP ISA UMB Region Exclusion
  CC00 - CFFF: Available
  D000 - D3FF: Available
```

D400 - D7FF: Available  
D800 - DBFF: Available  
DC00 - DFFF: Available

>PCI/PNP ISA IRQ Resource Exclusion  
IRQ 3: Available  
IRQ 4: Available  
IRQ 5: Available  
IRQ 7: Available  
IRQ 9: Reserved (see ATTENTION ->)  
IRQ 10: Reserved (see ATTENTION ->)  
IRQ 11: Available  
IRQ 12: Available

>DMI Event Logging  
Clear all DMI event logs: No  
Event Logging: Enabled  
(Video output to COM3 Disabled)

Security  
=====  
Set Supervisor Password Enter  
(Processor Serial Number) Disabled

Power  
=====  
Power State: Stay Off

Power Savings: Disabled

Resume On Time: Disabled  
Resume Time: 00:00:00

Wakeup On Modem Ring: Disabled

Wake Up On LAN: Disabled

>Hardware Monitor

Boot  
=====  
+Removable Devices  
+Hard Drive  
CD-Rom Drive  
Network Boot

---

RELEASE INFO 06/13 ( for internal user: see also ECO )

---

1. Based on Release No.: 05/11

2. Requirements/Dependences

Subpoints:	Hardware	D2-Motherboard Print E and newer
	Software	none

3. Removed Errors/Error-No.:

- BIOS
  - OS/2 system is able to boot
  - DMI information 32-bit-access possible
- Setup
  - Modified function "Power / Power up"  
to "Power / Follow AC Power", which equals to  
"Power / Restore previous state" but the

- Frontpanel Power Switch is disabled
- Default Speaker Volume == High

#### 4.New Functions/enhanced Functions

- BIOS:
  - COM3 interface may be used as display for POST and boot messages
  - Removed from POST:
    - Display: xxx Cache SRAM Passed
    - Display: 8086/1130 Rev.ID = xx
    - Display: 8086/2440 Rev.ID = xx
- SETUP:
  - "Advanced / Video output to COM3"

#### 5.Functions under development/enhanced Functions

- none

#### 6.Additional remarks

- This BIOS works for BEETLE CPU Pentium (D2-CPU), acting as Standard Version to support standard applications. It will come up with the following signon text:

```
WN STD 06/13 (D2)
06/06/2002
```

Use D2BIOS06.EXE to create a BIOS-Update-Floppy.  
Use D2CRIS06.EXE to create a BIOS-Recovery-Floppy.

- Checksum: E616h
- ECO: 017 1136 02
- MODULNO1: 1750033326
- PROMSETPN: A3C80100352
- RAWMATPN: A3C40027674
- LABELTEXT: 003530601-E616h
- PROGR-FORMAT: INTEL MCS-86HEX

After corrupted checksum the BIOS will set its default to the following values:

#### Main

====

Diskette A: 1.44 MB  
Diskette B: Disabled

>Primary Master: Auto  
>Primary Slave: Auto  
>Secondary Master: Auto  
>Secondary Slave: Auto

#### Advanced

=====

Reset Configuration Data: No  
Speaker Volume High  
Local Bus IDE adapter: Both  
SMART Device Monitoring: Disabled  
PS/2 Mouse: Disabled  
Large Disk Access Mode: DOS  
Legacy USB Support: Disabled  
ISA graphics device: No  
Boot-Video device: Onboard

```
Onboard LAN BootProm:           Enabled
QuickBoot Mode:                 Disabled

>I/O Device Configuration
  Serial Port A:                 Enabled
    Base I/O address / IRQ:     3F8/IRQ4
  Serial Port B:                 Enabled
    Base I/O address / IRQ:     2F8/IRQ3
  Parallel Port:                 Enabled
    Mode:                        Bi-directional
    Base I/O address:            378
  Floppy Disk Controller:        Enabled

  TouchScreen Routing:           No Routing
  (IRQ-Routing COM3 COM4        COM3_I10 COM4_I10)

>PCI/PNP ISA UMB Region Exclusion
  CC00 - CFFF:                   Available
  D000 - D3FF:                   Available
  D400 - D7FF:                   Available
  D800 - DBFF:                   Available
  DC00 - DFFF:                   Available

>PCI/PNP ISA IRQ Resource Exclusion
  IRQ 3:                         Available
  IRQ 4:                         Available
  IRQ 5:                         Available
  IRQ 7:                         Available
  IRQ 9:                         Reserved (see ATTENTION ->)
  IRQ 10:                        Reserved (see ATTENTION ->)
  IRQ 11:                        Available
  IRQ 12:                        Available

>DMI Event Logging
  Clear all DMI event logs:       No
  Event Logging:                  Enabled
  (Video output to COM3          Disabled)

Security
=====
Set Supervisor Password          Enter
(Processor Serial Number)        Disabled

Power
=====
  Power State:                    Stay Off

Power Savings:                   Disabled

Resume On Time:                  Disabled
Resume Time:                      00:00:00

Wakeup On Modem Ring:            Disabled

Wake Up On LAN:                  Disabled

  >Hardware Monitor

Boot
====
+Removable Devices
+Hard Drive
CD-Rom Drive
Network Boot
```

---

RELEASE INFO 05/11 ( for internal user: see also ECO )

---

1. Based on Release No.: 04/08

2. Requirements/Dependences

Subpoints:	Hardware	D2-Motherboard Print E
	Software	none

3. Removed Errors/Error-No.:

- Fixed problems with CompactFlashMemories
- Fixed booting failure from some CDROMs
- Fixed LED-update on Standard- and USB-Keyboards running DOS and Windows

4. New Functions/enhanced Functions

- BIOS:
  - Included Intel BootAgent Version 4.0.22
  - Memory D000h -DFFFh completely to be reserved, if Onboard LAN==Disabled
  - Message RevisionID of Device 1130 (GMCH) and Device 2440 (ICH2) during POST
  - BootBlockProtection implemented. No writing possible from application into bootblock
- SETUP:
  - Message RevisionID of Device 1130 (GMCH) and Device 2440 (ICH2) on "Main" screen
  - Display Extended Memory Size in "MB" units
  - Moved "Speaker Volume" to "Advanced" screen
  - Moved "Local Bus IDE Adapter" to "Advanced" screen
  - New function "QuickBoot Mode" in "Advanced" screen
  - New function "HDD-SmartMonitoring" in "Advanced" screen
  - New entry "Power Up" in "Power State" on "Power" screen
  - Extended helptext for COM3 / COM4 entry on "Advanced" screen

5. Functions under development/enhanced Functions

- none

6. Additional remarks

- This BIOS works for BEETLE CPU Pentium (D2-CPU), acting as Standard Version to support standard applications. It will come up with the following signon text:

```
WN STD 05/11 (D2)
03/18/2002
```

Use D2BIOS05.EXE to create a BIOS-Update-Floppy.  
Use D2CRIS05.EXE to create a BIOS-Recovery-Floppy.

- Checksum: 8A1Ah
- ECO: 017 0662 02
- MODULNO1: 1750033326
- PROMSETPN: A3C80100352
- RAWMATPN: A3C40027674
- LABELTEXT: D2CPU

After corrupted checksum the BIOS will set its default to the following values:

## Main

=====

Diskette A: 1.44 MB  
Diskette B: Disabled

>Primary Master: Auto  
>Primary Slave: Auto  
>Secondary Master: Auto  
>Secondary Slave: Auto

## Advanced

=====

Reset Configuration Data: No  
Speaker Volume Middle  
Local Bus IDE adapter: Both  
SMART Device Monitoring: Disabled  
PS/2 Mouse: Disabled  
Large Disk Access Mode: DOS  
Legacy USB Support: Disabled  
ISA graphics device: No  
Boot-Video device: Onboard  
Onboard LAN BootProm: Enabled  
QuickBoot Mode: Disabled

## &gt;I/O Device Configuration

Serial Port A: Enabled  
Base I/O address / IRQ: 3F8/IRQ4  
Serial Port B: Enabled  
Base I/O address / IRQ: 2F8/IRQ3  
Parallel Port: Enabled  
Mode: Bi-directional  
Base I/O address: 378  
Floppy Disk Controller: Enabled  
  
TouchScreen Routing: No Routing  
(IRQ-Routing COM3 COM4 COM3\_I10 COM4\_I10)

## &gt;PCI/PNP ISA UMB Region Exclusion

CC00 - CFFF: Available  
D000 - D3FF: Available  
D400 - D7FF: Available  
D800 - DBFF: Available  
DC00 - DFFF: Available

## &gt;PCI/PNP ISA IRQ Resource Exclusion

IRQ 3: Available  
IRQ 4: Available  
IRQ 5: Available  
IRQ 7: Available  
IRQ 9: Reserved  
IRQ 10: Reserved  
IRQ 11: Available  
IRQ 12: Available

## &gt;DMI Event Logging

Clear all DMI event logs: No  
Event Logging: Enabled

## Security

=====

Set Supervisor Password Enter  
(Processor Serial Number) Disabled

```
Power
=====
    Power State:                Stay Off

Power Savings:                 Disabled

Resume On Time:               Disabled
Resume Time:                   00:00:00

Wakeup On Modem Ring:         Disabled

Wake Up On LAN:               Disabled

    >Hardware Monitor
```

```
Boot
=====
+Removable Devices
+Hard Drive
CD-Rom Drive
Network Boot
```

---

RELEASE INFO 04/08 ( for internal user: see also ECO )

---

1. Based on Release No.: 03/06

2. Requirements/Dependences

Subpoints:	Hardware	D2-Motherboard Print E
	Software	none

3. Removed Errors/Error-No.:

- Using the new MPS 1064 Power Supply with USV (Magnum)  
the fan will not longer run with maximum speed

4. New Functions/enhanced Functions

- none

5. Functions under development/enhanced Functions

- none

6. Additional remarks

- This BIOS works for BEETLE CPU Pentium (D2-CPU), acting  
as

Standard Version to support standard applications.  
It will come up with the following signon text:

WN STD 04/08 12/12/2001 (D2)

Use D2BIOS04.EXE to create a BIOS-Update-Floppy.  
Use D2CRIS04.EXE to create a BIOS-Recovery-Floppy.

- Checksum: 0A470h
- ECO: 017 2791/01
- MODULNO1: 1750033326
- PROMSETPN: A3C80100352
- RAWMATPN: A3C40027674
- LABELTEXT: D2CPU

After corrupted checksum the BIOS will set its default to the following values:

```
Main
====
Diskette A:                1.44 MB
Diskette B:                Disabled

>Primary Master:          Auto
>Primary Slave:           Auto
>Secondary Master:        Auto
>Secondary Slave:         Auto
Local Bus IDE adapter:     Both

Speaker Volume             Middle

Advanced
=====
Reset Configuration Data:  No

PS/2 Mouse:               Disabled
Large Disk Access Mode:   DOS
Legacy USB Support:        Disabled
ISA graphics device:      No
Boot-Video device:        Onboard
Onboard LAN BootProm:     Enabled
QuickBoot Mode:           Disabled

>I/O Device Configuration
  Serial Port A:           Enabled
    Base I/O address / IRQ: 3F8/IRQ4
  Serial Port B:           Enabled
    Base I/O address / IRQ: 2F8/IRQ3
  Parallel Port:           Enabled
    Mode:                   Bi-directional
    Base I/O address:       378
  Floppy Disk Controller:  Enabled

  TouchScreen Routing:     No Routing
  (IRQ-Routing COM3 COM4  COM3_____ COM4_____ )

>PCI/PNP ISA UMB Region Exclusion
  CC00 - CFFF:             Available
  D000 - D3FF:             Available
  D400 - D7FF:             Available
  D800 - DBFF:             Available
  DC00 - DFFF:             Available
>PCI/PNP ISA IRQ Resource Exclusion
  IRQ 3:                   Available
  IRQ 4:                   Available
  IRQ 5:                   Available
  IRQ 7:                   Available
  IRQ 9:                   Reserved (see ATTENTION ->)
  IRQ 10:                  Reserved (see ATTENTION ->)
  IRQ 11:                  Available
  IRQ 12:                  Available

>DMI Event Logging
  Clear all DMI event logs: No
  Event Logging:           Enabled

Security
=====
Set Supervisor Password   Enter
(Processor Serial Number) Disabled

Power
```

```
=====
Power State:                Stay Off

Power Savings:              Disabled
Standby Timeout:           Off

Wakeup On Time:            Disabled
Time:                      00:00:00

Wakeup On Modem Ring:      Disabled

Wakeup On LAN:             Disabled

    >Hardware Monitor
```

```
Boot
=====
+Removable Devices
+Hard Drive
CD-Rom Drive
Network Boot
```

---

RELEASE INFO 03/06 ( for internal user: see also ECO )

---

1. Based on Release No.: 02/05

2. Requirements/Dependences

Subpoints: Hardware D2-Motherboard Print E

Software

- This BIOS is designed to provide the complete DMI-structure to keep track serial numbers etc for future use. For this reason the old structure in BIOS has to be deleted before the new structure can be installed. To accomplish this there is a two times update-flash-procedure needed for this version which is done automatically within the screen guided flash procedure.

3. Removed Errors/Error-No.:

- Enhanced initializing of Environment Controller to avoid spurious slow down of CPU-speed, running RAM-test slow during PowerOnSelfTest
- Some minor bug fixes

4. New Functions/enhanced Functions

- Enhanced DMI structure to support serial numbers etc in future
- USB Boot Support for FD and TEAC CDROM
- Setup Entrys
  - Advanced: OnBoard LAN BootProm
  - Advanced: QuickBoot Mode
  - Advanced: >DMI Event Logging
  - Power/HardwareMonitor: Fan Speeds

5. Functions under development/enhanced Functions

- none

## 6. Additional remarks

- This BIOS works for BEETLE CPU Pentium (D2-CPU), acting as

Standard Version to support standard applications.  
It will come up with the following signon text:

```
WN STD 03/06 11/09/2001 (D2)
```

Use D2BIOS03.EXE to create a BIOS-Update-Floppy.  
Use D2CRIS03.EXE to create a BIOS-Recovery-Floppy.

```
- Checksum:      6111h
- ECO:           017 2475 01
- MODULNO1:     1750033326
- PROMSETPN:    A3C80100352
- RAWMATPN:     A3C40027674
- LABELTEXT:    D2CPU
```

---

After corrupted checksum the BIOS will set its default to the following values:

```
Main
====
Diskette A:      1.44 MB
Diskette B:      Disabled

>Primary Master:      Auto
>Primary Slave:       Auto
>Secondary Master:    Auto
>Secondary Slave:     Auto
Local Bus IDE adapter:      Both

Speaker Volume      Middle

Advanced
=====
Reset Configuration Data:      No

PS/2 Mouse:         Disabled
Large Disk Access Mode:        DOS
Legacy USB Support:    Disabled
ISA graphics device:    No
Boot-Video device:      Onboard
Onboard LAN BootProm:    Enabled
QuickBoot Mode:        Disabled

>I/O Device Configuration
Serial Port A:      Enabled
  Base I/O address / IRQ:    3F8/IRQ4
Serial Port B:      Enabled
  Base I/O address / IRQ:    2F8/IRQ3
Parallel Port:      Enabled
  Mode:              Bi-directional
  Base I/O address:    378
Floppy Disk Controller:    Enabled

TouchScreen Routing:      No Routing
  (IRQ-Routing COM3 COM4    COM3____ COM4____)

>PCI/PNP ISA UMB Region Exclusion
  CC00 - CFFF:          Available
  D000 - D3FF:          Available
  D400 - D7FF:          Available
  D800 - DBFF:          Available
  DC00 - DFFF:          Available
>PCI/PNP ISA IRQ Resource Exclusion
  IRQ 3:              Available
```

```
IRQ 4: Available
IRQ 5: Available
IRQ 7: Available
IRQ 9: Reserved (see ATTENTION ->)
IRQ 10: Reserved (see ATTENTION ->)
IRQ 11: Available
IRQ 12: Available
```

```
>DMI Event Logging
Clear all DMI event logs: No
Event Logging: Enabled
```

## Security

=====

```
Set Supervisor Password Enter
(Processor Serial Number) Disabled
```

## Power

=====

```
Power State: Stay Off

Power Savings: Disabled
Standby Timeout: Off

Wakeup On Time: Disabled
Time: 00:00:00

Wakeup On Modem Ring: Disabled

Wakeup On LAN: Disabled
```

## &gt;Hardware Monitor

## Boot

=====

```
+Removable Devices
+Hard Drive
CD-Rom Drive
Network Boot
```

---

RELEASE INFO 01/01 ( for internal user: see also ECO )

---

1. Based on Release No.: 00/00

## 2. Requirements/Dependences

```
Subpoints: Hardware D2-Motherboard Print E
Software none
```

## 3. Removed Errors/Error-No.:

- none

## 4. New Functions/enhanced Functions

- none

## 5. Functions under development/enhanced Functions

## 6. Additional remarks

- This BIOS is supporting the Standard Functions only
- Display signon text:

WN STD 01/01 (D2)  
07/17/2001

- Checksum: 4F2Bh  
- ECO: 017155101

After corrupted checksum the BIOS will set its default to the following values:

#### Main

====

Diskette A: 1.44 MB  
Diskette B: Disabled

>Primary Master: Auto  
>Primary Slave: Auto  
>Secondary Master: Auto  
>Secondary Slave: Auto  
Local Bus IDE adapter: Both

Speaker Volume Middle

#### Advanced

=====

Reset Configuration Data: No

Installed O/S: Other  
PS/2 Mouse: Disabled  
Large Disk Access Mode: DOS  
Legacy USB Support: Enabled  
ISA graphics device No  
Boot-Video device Onboard

#### >I/O Device Configuration

Serial Port A: Enabled  
Base I/O address / IRQ: 3F8/IRQ4  
Serial Port B: Enabled  
Base I/O address / IRQ: 2F8/IRQ3  
Parallel Port: Enabled  
Mode: Bi-directional  
Base I/O address: 378  
Floppy Disk Controller: Enabled  
  
TouchScreen Routing: No Routing  
(IRQ-Routing COM3 COM4 COM3\_\_\_\_\_ COM4\_\_\_\_\_)

#### >PCI/PNP ISA UMB Region Exclusion

CC00 - CFFF: Available  
D000 - D3FF: Available  
D400 - D7FF: Available  
D800 - DBFF: Available  
DC00 - DFFF: Available

#### >PCI/PNP ISA IRQ Resource Exclusion

IRQ 3: Available  
IRQ 4: Available  
IRQ 5: Available  
IRQ 7: Available  
IRQ 9: Reserved (see ATTENTION ->)  
IRQ 10: Available  
IRQ 11: Available  
IRQ 12: Available

#### Security

=====

Set Supervisor Password Enter

#### Power

=====

Power State Stay Off

Power Savings: Disabled  
Standby Timeout: Off

Wakeup On Time: Disabled  
Time: 00:00:00

Wakeup On Modem Ring: Disabled

Wakeup On LAN: Disabled

Boot  
====  
Removable Devices  
+Hard Drive  
CD-Rom Drive  
Network Boot

---

RELEASE INFO 00/00 ( for internal user: see also ECO )

---

1. Based on Release No.: --/--

2. Requirements/Dependences

Subpoints: Hardware D2-Motherboard Print E  
Software none

3. Removed Errors/Error-No.:

- none

4. New Functions/enhanced Functions

- none

5. Functions under development/enhanced Functions

- This version 00/00 still is under development.

FOR PROPER OPERATION THE FOLLOWING MUST BE DONE:

- Onboard LAN controller must be available on D2-CPU

board,

(D2-LAN-Module or 3COM-LAN-Sandwich)

- Setup entry "Power / Power Savings" must be set to  
[Disabled]; this also is the default after flashing  
the BIOS

6. Additional remarks

- This BIOS is supporting the Standard Functions only

- Display signon text:

WN STD 00/00 (D2)

06/18/2001

- Checksum: 87BEh

- When onboard LAN bridge is plugged in, default setting

is:

Intel (R) Boot Agent will show following startup text

"Initialize Intel Boot Agent...

PXE 2.0 Build...

Press CTRL-S to enter Boot Agent setup"

After corrupted checksum the BIOS will set its default to  
the following values:

```
Main
====
Diskette A:          1.44 MB
Diskette B:          Disabled

>Primary Master:    Auto
>Primary Slave:     Auto
>Secondary Master:  Auto
>Secondary Slave:   Auto
Local Bus IDE adapter:  Both

Speaker Volume      Middle

Advanced
=====
Reset Configuration Data:  No

Installed O/S:       Other
PS/2 Mouse:         Disabled
Large Disk Access Mode:  DOS
Legacy USB Support:   Disabled
ISA graphics device  No

>I/O Device Configuration
  Serial Port A:     Enabled
    Base I/O address / IRQ: 3F8/IRQ4
  Serial Port B:     Enabled
    Base I/O address / IRQ: 2F8/IRQ3
  Parallel Port:     Enabled
    Mode:             Bi-directional
    Base I/O address: 378
  Floppy Disk Controller: Enabled

  TouchScreen Routing:  No Routing
  (IRQ-Routing COM3 COM4 COM3_____ COM4_____ )

>PCI/PNP ISA UMB Region Exclusion
  CC00 - CFFF:       Available
  D000 - D3FF:       Available
  D400 - D7FF:       Available
  D800 - DBFF:       Available
  DC00 - DFFF:       Available
>PCI/PNP ISA IRQ Resource Exclusion
  IRQ 3:             Available
  IRQ 4:             Available
  IRQ 5:             Available
  IRQ 7:             Available
  IRQ 9:             Reserved (see ATTENTION ->)
  IRQ 10:            Available
  IRQ 11:            Available
  IRQ 12:            Available

Security
=====
Set Supervisor Password      Enter

Power
====
  Power State                Stay Off

Power Savings:               Disabled
  Standby Timeout:           Off

Wakeup On Time:              Disabled
  Time:                      00:00:00

Wakeup On Modem Ring:        Disabled

Wakeup On LAN:               Disabled
```

```
Boot
====
Removable Devices
+Hard Drive
CD-Rom Drive
Network Boot
Intel (R) Boot Agent ...
```