

From uwm.edu!spool.mu.edu!sol.ctr.columbia.edu!xlink.net!math.fu-berlin.de!irz401!aw4 Fri Oct 15 12:33:08 CDT 1993
Article: 10094 of comp.sys.palmtops
Path: uwm.edu!spool.mu.edu!sol.ctr.columbia.edu!xlink.net!math.fu-berlin.de!irz401!aw4
From: aw4@irz.inf.tu-dresden.de (Andreas Westfeld)
Newsgroups: comp.sys.palmtops
Subject: Quaderno FAQ
Date: 15 Oct 1993 11:35:31 +0100
Organization: Dept. of Computer Science, TU Dresden, Germany
Lines: 149
Distribution: world
Message-ID: <29ludj\$6lp@irz407.inf.tu-dresden.de>
Reply-To: westfeld@freia.inf.tu-dresden.de
NNTP-Posting-Host: irz407.inf.tu-dresden.de
Keywords: FAQ

1. What does xbios do though?

(This is a TSR supporting int 15h, ax=44c0...44c9. See inter37?.zip)

XBIOS is the low level interface to the Quaderno DSP and LCD indicator. XBIOS also contains the DSP vocoder code that is downloaded dynamically when the compression ratio changes.

If you don't need the voice functions, you can safely not load XBIOS, the SPEECH TSR, and you can turn off Voice Manager using PASETUP, as you have already discovered :-}.

The Quaderno System ROM contains a copy of the first release of XBIOS. Indeed it has some bugs, both in the vocoders and host interface. Since changing the ROM every time XBIOS changed was a real bother, we made XBIOS into a TSR.

Please use the XBIOS TSR for Quaderno voice functions.

2. How to powerdown the HDD (without AC):

write in the command line:

```
debug park.com
```

```
a
```

```
pop ds
```

```
mov word ptr [492],1
```

```
int 20
```

```
rcx
```

```
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```

```
w
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```
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Now you have the program park.com in the current dir. If you call park the same happens as after the hdd timer has expired. Mind the empty line after int 20!

3. Can I buy the connector elsewhere and make up my own cable?

The connectors are manufactured by JAE and I heard from someone here in the states that they were available from a supplier. I believe the part number of the female (host) part of the adapter is:

TX20A-36R-D2LT-A1LH. Knowing this I think you could get the male
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end.

4. Does anyone know the pinouts from the miniature parallel socket on
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The pin-out includes all parallel and floppy disk lines. The pin-out is
included in the service manual, which perhaps your dealer can get.

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The device you see as D: is actually combined ROM and 32 KB SRAM. Some
of the RAM is used for configuration information (all your PA configuration
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you want. You cannot erase the system files that reside there because
these are actually in ROM.

6. Is it possible to make PA use the 320k EMS memory instead of taking
over 200kB from the 640k main memory?

Sorry, there is no way to make PA use the EMS memory.

7. Is there some trick to get it to shut down the hard disk while on
AC?

Sorry, I don't know any better way:

(This will work with 3 BIOS Versions - all I know.)

```
debug park!.com
```

```
a  
push cs  
mov ax, 0  
push ax  
mov ax, 68AC  
push ax  
jmp F000:A3A2
```

```
rcx  
e  
w  
q
```

```
simply call park! .
```

8. How can I turn off the doze mode from batch files?

```
debug nodoze.com
```

```
a  
mov ax, 1c01  
mov bh,1  
call f000:6860  
ret
```

```
rcx  
10  
w
```

q

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```
rename xbios.com to xbios!.com in \pa
make a batch file xbios.bat:
copy autoexec.bat d:
copy config.sys d:
mysetup
reboot
```

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10. How I have to cross the pinout of the null modem cable to get a seriell adapter?

Look at the readme file in \dos. There is a description of the cable pinouts for INTERLINK. Cross the pinouts back.

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patch pa.com (No.)

?. How can I turn Little Quaderno on without turning the HDD on (while booting from D:)?

See also my Quaderno.lst ...

(Thanks to Jim Blackson, Don Herrick, and everybody who asked.)

Corections to: westfeld@freia.inf.tu-dresden.de

--

Andreas

äöüß=aeoeuesz

westfeld@freia.inf.tu-dresden.de (141.76.99.1)

```
From uwm.edu!vixen.cso.uiuc.edu!howland.reston.ans.net!xlink.net!math.fu-
berlin.de!irz401!aw4 Mon Nov 8 12:36:14 CST 1993
Article: 10566 of comp.sys.palmtops
Path: uwm.edu!vixen.cso.uiuc.edu!howland.reston.ans.net!xlink.net!math.fu-
berlin.de!irz401!aw4
From: aw4@irz.inf.tu-dresden.de (Andreas Westfeld)
Newsgroups: comp.sys.palmtops
Subject: FAQ Quaderno
Date: 8 Nov 1993 11:30:00 +0100
Organization: Dept. of Computer Science, TU Dresden, Germany
Lines: 172
Distribution: world
Message-ID: <2bl738$8au@irz202.inf.tu-dresden.de>
Reply-To: westfeld@freia.inf.tu-dresden.de
NNTP-Posting-Host: irz202.inf.tu-dresden.de
```

FAQ 11/93

What's new?

- park!.com for more versions

- remark on the use of park in batch files

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rcx             ; define file length
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Now you have the program park.com in the current dir. If you call park the same happens as after the hdd timer has expired. Mind the empty line after int 20!

Remark: Don't call it from within a batch file located on C:! (DOS will read the batch file again after executing park.com, and the hdd will be used.

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```
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push ax          ; put cs:0 (@: int 20) onto the stack for "retf"
mov ax, 68AC     ; @:f000:68ac: retf
push ax
jmp F000:A3A2    ; "call" the near routine
```

```
rcx
e                ; 14 bytes
w
q
```

for bios dated from 06/26/92, 10/23/92: (Res. Diag. Rev 1.08, 1.88)
debug park!.com

```
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push cs
mov ax, 0
push ax
mov ax, 68AC
push ax
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Andreas äöüß=aeoeuesz
westfeld@freia.inf.tu-dresden.de (141.76.99.1)

From uwm.edu!cs.utexas.edu!uunet!zib-berlin.de!irz401!aw4 Fri Feb 4 04:37:01 CST 1994

Article: 12041 of comp.sys.palmtops

Path: uwm.edu!cs.utexas.edu!uunet!zib-berlin.de!irz401!aw4

From: aw4@irz.inf.tu-dresden.de (Andreas Westfeld)

Newsgroups: comp.sys.palmtops, comp.sys.laptops

Subject: FAQ QUADERNO

Followup-To: comp.sys.palmtops

Date: 4 Feb 1994 11:07:55 +0100

Organization: Dept. of Computer Science, TU Dresden, Germany

Lines: 353

Distribution: world

Message-ID: <2it6pr\$ab5@irz217.inf.tu-dresden.de>

Reply-To: westfeld@freia.inf.tu-dresden.de

NNTP-Posting-Host: irz217.inf.tu-dresden.de

Mime-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 8bit

Keywords: Quaderno faq subnotebook

Xref: uwm.edu comp.sys.palmtops:12041 comp.sys.laptops:17135

Quaderno FAQ Feb 94

Contents:

1. What does xbios do though?
2. How to powerdown the HDD (without AC)
3. Can I buy the connector elsewhere and make up my own cable?
4. Does anyone know the pinouts from the miniature parallel socket on the Quaderno?
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8. How can I turn off the doze mode from batch files?
9. How can I restore my setup automatically after a hard reset?
10. How I have to cross the pinout of the null modem cable to get a seriell adapter?

| 11. Power Demand

| 12. How to make the hdd bootable

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The male connectors which mate to the Quaderno are:

- TX20A-10PHI-D2P1-D1 10-pin male connector kit (serial)
- TX20A-36PHI-D2P1-D1 36-pin male connector kit (prt/fdd)

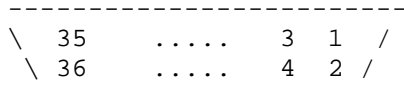
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Pin Assignment
=====

Both the Quaderno and Quaderno/33 use the JAE Tx20A-36R-D25F-A1LP 36-pin "mini" female connector as a combined printer/FDD port. (The male half-pitch connector is part number Tx20A-36PH1-D2P1-D1.)

When looking into the connector, the pins are numbered as follows. Odd pins on top, even pins on the bottom, ordered right-to-left.



The pin assignments of Quaderno and Quaderno/33 are almost same. The different pins are 20, 34, and 35. These pins are GND on the Quaderno. They are used for FDD power on the Quaderno/33.

Half of the pins, 1 - 18, are used for the printer. The rest, 19-36, are used for the FDD. If you want to make your own printer cable, the column on the right shows the pin numbers for a 25-pin D-SUB female connector (Note: pins 20 and 23 are no connection).

Half-pitch JAE connector	D-SUB Printer connector
-----	-----

1	STB	1
2	P_D0 (Printer Data)	2
3	P_D1	3
4	P_D2	4
5	P_D3	5
6	P_D4	6
7	P_D5	7
8	P_D6	8
9	P_D7	9
10	SP_ACK	10
11	SP_BUSY	11
12	PE	12
13	SLCT	13
14	AFD	14
15	ERR	15
16	INIT	16
17	SLIN	17
18	GND	18
19	GND	19
		20 (no connection!)
20	VFDD (FDD power: Quaderno/33 only)	21
21	FDIDX	
22	FDTK0	
23	FDWP	
24	FDRDD	
25	FDCHG	
26	FDDS1	
27	FDMO1	
28	FDWD	
29	FDWE	
30	reserved (make no connection)	
31	FDHS	
32	FDDIRC	
33	FDSTEP	
34	VFDD (FDD power: Quaderno/33 only)	22
		23 (no connection!)
35	FDDINS (FDD power: Quaderno/33)	24
36	GND	25

Quaderno/33 FDD power
=====

The specification for three pins were changed, to supply power to the Quaderno/33 external floppy Disk Drive (FDD).

Pin 35, FDDINS-, is used to detect the type of FDD attached, and thus controls whether the Quaderno/33's FDD power circuit is enabled.

If FDDINS- is low (connected to ground), the original Quaderno external FDD is connected, so the VFDD power circuit will not be enabled. This detection circuit is necessary because the original Quaderno FDD connects pins 20 and 34 (and 35) to ground, shorting the VFDD lines!

However, the Quaderno/33 external FDD sets FDDINS- to no connect. This appears as HI, enabling the VFDD power circuit. When the software turns on the FDD power, power will flow through VFDD to the FDD.

VFDD is tied to the output from the AC adapter or the battery pack. When using the AC adapter, VFDD typically is 12V DC, supporting a current of about 0.7 Amperes, with a peak current of 1.0 Ampere. When running from a fully-charged battery pack, VFDD is typically 7.2V DC, supporting a current of 0.7 Amperes, with a peak current also of 1.0 Amperes.

```
** WARNING ***** WARNING ***** Quaderno/33 ***** WARNING ***** WARNING
*
* If you draw too much current, or short pins 20 and 34 to ground
* without grounding pin 35 (effectively shorting VFDD to ground),
* you might _damage_ your Quaderno/33, and also...
*
*     1) blow a fuse on the motherboard;
*     2) cause a reset (the Quaderno was starved of power);
*     3) cause a shut down (the Quaderno was starved of power);
*
***** WARNING ***** WARNING ***** WARNING ***** WARNING
```

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Look at the readme.txt file in c:\dos. There is a description of the cable pinouts for INTERLINK. Cross the pinouts back.

11. Power Demand

Messwerte:

Ruhestrom	:	0.5 mA	(suspended)
Ein/Ausschalten/Platte starten	:	750-800 mA	(turn on hdd)
Festplattenzugriff	:	440 mA	(hdd access)
CPU Hi/FP off/LCD on	:	258 mA	
CPU Md/FP off/LCD on	:	210 mA	
CPU Lo/FP off/LCD on	:	200 mA	
CPU HI/FP on /LCD on/RS232 on	:	410 mA	
CPU HI/FP on /LCD on/RS232 off	:	394 mA	
CPU HI/FP on /LCD on/RS232 per c0 abges.	:	403 mA	(turned off using c0.com)
CPU Md/FP on /LCD on	:	355 mA	
CPU Lo/FP on /LCD on	:	345 mA	
CPU Hi/FP on /DOZE	:	313 mA	
CPU Md/FP on /DOZE	:	312 mA	
CPU Lo/FP on /DOZE	:	312 mA	
CPU Md/FP off/DOZE	:	167 mA	
CPU Lo/FP off/LCD off/DOZE/RS232 off	:	90 mA	
CPU Hi/FP off/LCD on /RS232 off	:	268 mA	

CPU Hi/FP off/LCD off/RS232 off : 91 mA
CPU Hi/FP off/LCD on : 275 mA
CPU Hi/FP off/LCD off : 97 mA

12. How to make the hdd bootable

I patched sys.com of DR-DOS 6.0. Now it runs with MS-ROMDOS 5.0 (and other versions of dos). Get a copy of this uuencoded patch from

Andreas_Westfeld@irz.inf.tu-dresden.de

Copy all the system files to a RAM-Disk on your Quaderno

ibmbio.com

ibmdos.com

command.com

and sys6.com (the patched one).

Being on your RAM-Disk (e. g. E:\) type: "sys6 c:"

(This will overwrite your boot sector on hard disk.)

Use the ROM setup to make Quaderno booting from disk.

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patch pa.com (No.)

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äöüß=aeoeuesz

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From

uwm.edu!reuter.cse.ogi.edu!cs.uoregon.edu!sgiblab!swrinde!emory!europa.eng.gtefs

d.com!MathWorks.Com!news.kei.com!yeshua.marcam.com!charnel!olivea!flash!blackson

Sat Mar 12 14:01:22 CST 1994

Article: 12858 of comp.sys.palmtops

Path:

uwm.edu!reuter.cse.ogi.edu!cs.uoregon.edu!sgiblab!swrinde!emory!europa.eng.gtefs

d.com!MathWorks.Com!news.kei.com!yeshua.marcam.com!charnel!olivea!flash!blackson

From: blackson@flash.ATC.Olivetti.Com (Jim Blackson/Pegasus)

Newsgroups: comp.sys.palmtops

Subject: Re: Quaderno/33 upgrade to MS-DOS 6.2 ?

Date: 10 Mar 1994 08:00:06 GMT

Organization: Olivetti ATC; Cupertino CA, USA

Lines: 119

Message-ID: <2lmk26\$r3d@olivea.ATC.Olivetti.Com>

References: <1994Mar4.120637.2706@decus>

NNTP-Posting-Host: flash.atc.olivetti.com

Summary: Tips on upgrading Quaderno/33 to MS-DOS 6.x

Keywords: Quaderno/33, MS-DOS, upgrading

In article <1994Mar4.120637.2706@decus> b_fleuti@decus.ch

(Bernhard G. Fleuti, Program Library Coordinator) writes:

```
>On the QUADERNO/33 there is MS-DOS 5.0 in the ROM and on the HD. I'm interested
>now to install MS-DOS 6.2 to use doublespace. Are there any upgrade plans from
>Olivetti ? Is the Voicerec software running under MS-DOS 6.2 ? Any other
>function which require MS-DOS 5.0 and will stop to work with MS-DOS 6.2?
>
>[flame on]
>Olivetti Switzerland is not able to answer this questions ( they have 50
>Quaderno on stock and wait for customer imploring for one ! that's their
>marketing :-(
>[flame off]
>
>I managed already to install MS-DOS 5.0 on the HD to have a bootable HD. The
>installation procedure for MS-DOS 6.0 is now asking for formating the HD before
>moving the files to the directories. Are there any hidden partitions on the HD
>like for the QUADERNO XT ?
>
>
>Thanks for your help and regards
> Bernhard Fleuti
```

Please ask your Olivetti Rep about upgrade plans. We don't hear much back in the lab. :-{

The Quaderno/33 does have a hidden partition on the HDD. This is called the "Recovery Drive", and becomes visible when you do a "Recovery" boot. The partition is treated as a separate drive by the BIOS, so it shouldn't get in the way of DoubleSpace, we think.

One of the engineers in the lab gives the following advice about upgrading to MS-DOS 6.x

1. You must use the original power management drivers bundled with the Quaderno/33, not the ones included in MS-DOS 6.2. Make a new directory on the HDD, say C:\Q33, and copy the original PMD.SYS and POWER.EXE from C:\DOS to C:\Q33. [If you have already lost these files, you can recover them from the Recovery Drive (see above).]

Then install MS-DOS 6.2 (C:\DOS\POWER.EXE will be overwritten with the DOS 6.2 version).

After the MS-DOS 6.2 installation, edit the CONFIG.SYS file, and add the following lines to install the original PM drivers.

```
DEVICE=C:\Q33\PMD.SYS
DEVICEHIGH=C:\Q33\POWER.EXE ADV
```

Note: PMD.SYS must appear *before* POWER.EXE.

WARNING: Do *NOT* load high PMD.SYS!!!

2. MS-DOS 6.2 probably installs EMM386.EXE. If you use it, you must include the X= option on the EMM386 command line to exclude the address area used for power management and the PCMCIA window. An example is included in the Quaderno/33's original CONFIG.SYS or Recovery Drive CONFIG.BAK file. For example:

```
DEVICE=C:\DOS\EMM386.EXE /X=C800-D1FF /I=E000-E3FF NOEMS
```

3. The engineer recommends to use MS-DOS 6.2 versions of HIMEM.SYS,

EMM386.EXE, SMARTDRV.EXE, and RAMDRIVE.SYS, because they offer better performance and features.

4. To maximize the number of UMBs...

Since you have installed disk MS-DOS 6.2 :-}, you don't need to access the old ROM-DOS 5.0 kernel. So you can remap this address area to UMBs or EMS. To do this, use the following EMM386 line in your DOS 6.2 CONFIG.SYS file:

```
DEVICE=C:\DOS\EMM386.EXE /X=C800-D1FF /I=B000-B7FF /I=E000-EFFF NOEMS
                        ^^^^^^^^^^^^^^          ^
```

If you want to use both UMBs and EMS, use this line:

```
DEVICE=C:\DOS\EMM386.EXE RAM /X=C800-D1FF /I=B000-B7FF /I=E000-EFFF FRAME=E000
                        ^^^          ^^^^^^^^^^^^^^
```

/X=C800-D1FF excludes the power management and PCMCIA slot window.

/I=B000-B7FF includes the MDA video range. If you do this, you cannot use programs with monochrome graphics.

/I=E000-EFFF includes the ROM-DOS memory area.

NOEMS means to use only UMBs, no EMS.

RAM means to use both UMBs and EMS.

FRAME=E000 sets the 64k EMS page frame at segment E000h. The page frame now overlaps the old ROM-DOS area. If you don't specify the FRAME, EMM386 will place it at segment D400h, the first open area above the ROM-DOS area.

5. VoiceRec: VoiceRec requires that C:\VOICEREC be included in your path. Since you are not replacing the Quaderno/33's bundled Windows software, VoiceRec should work without problems. However, we have not tested it with DoubleSpace.

[Don't forget that Windows requires C:\WINDOWS in the path, and the environment variables TMP and TEMP defined.]

6. DoubleSpace: We heard it takes up to 4 hours to DoubleSpace the Quaderno/33 HDD, so none of us bother to use it. Has anybody else tried it yet?

Hope this helps,
Jim Blackson
pegasus@guest.atc.olivetti.com

From uwm.edu!cs.utexas.edu!uunet!olivea!flash!donh Thu Jul 22 13:39:35 CDT 1993
Article: 8188 of comp.sys.palmtops
Path: uwm.edu!cs.utexas.edu!uunet!olivea!flash!donh
From: donh@flash.ATC.Olivetti.Com (Don Herrick)
Newsgroups: comp.sys.palmtops

Subject: Re: Quaderno 33 (was Re: HP95LX and Omnibook questions)
Date: 22 Jul 1993 17:52:40 GMT
Organization: Olivetti ATC; Cupertino CA, USA
Lines: 13
Distribution: world
Message-ID: <22mk58\$mrq@olivea.ATC.Olivetti.Com>
References: <LOEFFLER.93Jul21160656@mnemosyne.austin.ibm.com>
<22lbuf\$e5b@olivea.ATC.Olivetti.Com> <tgtbtk.743327397@tb3.chem.tue.nl>
NNTP-Posting-Host: flash.atc.olivetti.com

In article <tgtbtk.743327397@tb3.chem.tue.nl> tgtbtk@tb3.chem.tue.nl (Toine Kuiper) writes:

>
>I am using the old quaderno at the moment. I want to know if the battery
>packs of the old quad work in the quad 33 (I have two extra batt packs)
>
The Quaderno 33 has a larger ni-cad battery pack or a ni-hi battery pack.
The Quaderno ni-cad packs will not fit.

Don Herrick
Olivetti
... State run lotteries: think of them as tax breaks for the intelligent...
... - Evan Leibovitch

From uwm.edu!math.ohio-
state.edu!howland.reston.ans.net!spool.mu.edu!olivea!flash!donh Sat Jul 31
14:53:43 CDT 1993
Article: 12217 of comp.sys.laptops
Path: uwm.edu!math.ohio-
state.edu!howland.reston.ans.net!spool.mu.edu!olivea!flash!donh
From: donh@flash.ATC.Olivetti.Com (Don Herrick)
Newsgroups: comp.sys.laptops
Subject: Re: Adding memory via PCMCIA?
Date: 31 Jul 1993 00:27:39 GMT
Organization: Olivetti ATC; Cupertino CA, USA
Lines: 24
Message-ID: <23ce9r\$roi@olivea.ATC.Olivetti.Com>
References: <2319kv\$e9c@savoy.cc.williams.edu>
<19930726.123904.71@almaden.ibm.com>
NNTP-Posting-Host: flash.atc.olivetti.com

In article <19930726.123904.71@almaden.ibm.com> graff@vnet.IBM.COM (Michael Graff) writes:

>In <2319kv\$e9c@savoy.cc.williams.edu> 96kfd@williams.edu writes:
>
>>I know that flash RAM storage space can be added to a laptop via
>>PCMCIA cards, but is it possible, as with the older JEIDA cards,
>>to add a 4 MB or 2 MB memory expansion.
>
>First, OS/2 can use more than 16M. But you can't add system memory
>via the PCMCIA slot. RAM in PCMCIA slots is used strictly as a
>virtual disk device. I've never seen it used any other way on any
>other machine....

Just to add a note, our new Quaderno 33, a 386 3 lb sub-notebook, comes standard with 4 MB RAM and can be expanded to 12 MB with the use of standard SRAM PCMCIA cards. The BIOS allows you to select whether the card is to be used as media or as system memory. Of course, after you use a card as system memory it must be reformatted prior to use as media.

Don Herrick
Olivetti

... State run lotteries: think of them as tax breaks for the intelligent....
... - Evan Leibovitch

From
uwm.edu!news.moneng.mei.com!howland.reston.ans.net!sol.ctr.columbia.edu!news.kei
.com!news.byu.edu!cwis.isu.edu!u.cc.utah.edu!not-for-mail Sat Jan 8 19:15:54
CST 1994
Article: 16142 of comp.sys.laptops
Path:
uwm.edu!news.moneng.mei.com!howland.reston.ans.net!sol.ctr.columbia.edu!news.kei
.com!news.byu.edu!cwis.isu.edu!u.cc.utah.edu!not-for-mail
From: pawcamp@u.cc.utah.edu (Paul Campbell)
Newsgroups: comp.sys.laptops
Subject: Re: Olivetti Quaderno users?
Date: 7 Jan 1994 11:31:43 -0700
Organization: University of Utah Computer Center, Salt Lake City, Ut.
Lines: 38
Message-ID: <2gk9qf\$4s6@u.cc.utah.edu>
References: <2gemr5\$5qs@hasle.oslonett.no>
NNTP-Posting-Host: u.cc.utah.edu

In article <2gemr5\$5qs@hasle.oslonett.no>,
Hans Olav Elseboe <hansolav@oslonett.no> wrote:

>
>And does anyone know of any utilities/applications written especially
>for the Quaderno? Does anyone know of any way to convert the sound
>files from the recorder to any other sound format? Has anyone had any
>experience with using PCMCIA? (Has anyone tried a PCMCIA modem?) Has
>anyone tried using any 'disk doubling' software with it (for instance
>the MS-DOS 6.2 DoubleSpace)?

I do much of the compatibility testing for our modems versus new machines.
Having done the compatibility testing for the Olivetti Quaderno 33, I can
verify that the following modems work:

MODEM	FIRMWARE	SPEED
XJ1144	RQ50	14400
CC3144	RQ52	14400
XJ196FM	RQ50	9600
CC396FM	RQ52	9600
XJ124FM	V1.300	2400
CC324FM	RK-07	2400
CC4144	RU05W	14400
XJ124FM	V1.08P	2400
XJ2144	RU03B	14400

hope this helps you....

-pc-

--
Paul W. Campbell pawcamp@u.cc.utah.edu
Megahertz Corporation pwc@sunset.cse.nau.edu
Salt Lake City, UT pwc@ghost.cse.nau.edu

From
uwm.edu!reuter.cse.ogi.edu!cs.uoregon.edu!sgiblab!swrinde!emory!europa.eng.gtefs
d.com!MathWorks.Com!news.kei.com!yeshua.marcam.com!charnel!olivea!flash!blackson
Thu Mar 10 13:46:03 CST 1994
Article: 12858 of comp.sys.palmtops
Path:
uwm.edu!reuter.cse.ogi.edu!cs.uoregon.edu!sgiblab!swrinde!emory!europa.eng.gtefs
d.com!MathWorks.Com!news.kei.com!yeshua.marcam.com!charnel!olivea!flash!blackson
From: blackson@flash.ATC.Olivetti.Com (Jim Blackson/Pegasus)
Newsgroups: comp.sys.palmtops
Subject: Re: Quaderno/33 upgrade to MS-DOS 6.2 ?
Date: 10 Mar 1994 08:00:06 GMT
Organization: Olivetti ATC; Cupertino CA, USA
Lines: 119
Message-ID: <2lmk26\$r3d@olivea.ATC.Olivetti.Com>
References: <1994Mar4.120637.2706@decus>
NNTP-Posting-Host: flash.atc.olivetti.com
Summary: Tips on upgrading Quaderno/33 to MS-DOS 6.x
Keywords: Quaderno/33, MS-DOS, upgrading

In article <1994Mar4.120637.2706@decus> b_fleuti@decus.ch
(Bernhard G. Fleuti, Program Library Coordinator) writes:
>On the QUADERNO/33 there is MS-DOS 5.0 in the ROM and on the HD. I'm interested
>now to install MS-DOS 6.2 to use doublespace. Are there any upgrade plans from
>Olivetti ? Is the Voicerec software running under MS-DOS 6.2 ? Any other
>function which require MS-DOS 5.0 and will stop to work with MS-DOS 6.2?
>
>[flame on]
>Olivetti Switzerland is not able to answer this questions (they have 50
>Quaderno on stock and wait for customer imploring for one ! that's their
>marketing :-(
>[flame off]
>
>I managed already to install MS-DOS 5.0 on the HD to have a bootable HD. The
>installation procedure for MS-DOS 6.0 is now asking for formatting the HD before
>moving the files to the directories. Are there any hidden partitions on the HD
>like for the QUADERNO XT ?
>
>
>Thanks for your help and regards
> Bernhard Fleuti

Please ask your Olivetti Rep about upgrade plans. We don't hear much
back in the lab. :-{

The Quaderno/33 does have a hidden partition on the HDD. This is
called the "Recovery Drive", and becomes visible when you do a
"Recovery" boot. The partition is treated as a separate drive by
the BIOS, so it shouldn't get in the way of DoubleSpace, we think.

One of the engineers in the lab gives the following advice about
upgrading to MS-DOS 6.x

1. You must use the original power management drivers bundled with
the Quaderno/33, not the ones included in MS-DOS 6.2. Make a new
directory on the HDD, say C:\Q33, and copy the original PMD.SYS and
POWER.EXE from C:\DOS to C:\Q33. [If you have already lost these
files, you can recover them from the Recovery Drive (see above).]

Then install MS-DOS 6.2 (C:\DOS\POWER.EXE will be overwritten with
the DOS 6.2 version).

After the MS-DOS 6.2 installation, edit the CONFIG.SYS file, and add the following lines to install the original PM drivers.

```
DEVICE=C:\Q33\PMD.SYS
DEVICEHIGH=C:\Q33\POWER.EXE ADV
```

Note: PMD.SYS must appear **before** POWER.EXE.

WARNING: Do **NOT** load high PMD.SYS!!!

2. MS-DOS 6.2 probably installs EMM386.EXE. If you use it, you must include the X= option on the EMM386 command line to exclude the address area used for power management and the PCMCIA window. An example is included in the Quaderno/33's original CONFIG.SYS or Recovery Drive CONFIG.BAK file. For example:

```
DEVICE=C:\DOS\EMM386.EXE /X=C800-D1FF /I=E000-E3FF NOEMS
```

3. The engineer recommends to use MS-DOS 6.2 versions of HIMEM.SYS, EMM386.EXE, SMARTDRV.EXE, and RAMDRIVE.SYS, because they offer better performance and features.

4. To maximize the number of UMBs...

Since you have installed disk MS-DOS 6.2 :-}, you don't need to access the old ROM-DOS 5.0 kernel. So you can remap this address area to UMBs or EMS. To do this, use the following EMM386 line in your DOS 6.2 CONFIG.SYS file:

```
DEVICE=C:\DOS\EMM386.EXE /X=C800-D1FF /I=B000-B7FF /I=E000-EFFF NOEMS
                        ^^^^^^^^^^^^^^^^                ^
```

If you want to use both UMBs and EMS, use this line:

```
DEVICE=C:\DOS\EMM386.EXE RAM /X=C800-D1FF /I=B000-B7FF /I=E000-EFFF FRAME=E000
                        ^^^                ^^^^^^^^^^^^^^^
```

/X=C800-D1FF excludes the power management and PCMCIA slot window.

/I=B000-B7FF includes the MDA video range. If you do this, you cannot use programs with monochrome graphics.

/I=E000-EFFF includes the ROM-DOS memory area.

NOEMS means to use only UMBs, no EMS.

RAM means to use both UMBs and EMS.

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5. VoiceRec: VoiceRec requires that C:\VOICEREC be included in your path. Since you are not replacing the Quaderno/33's bundled Windows software, VoiceRec should work without problems. However, we have not tested it with DoubleSpace.

[Don't forget that Windows requires C:\WINDOWS in the path, and the

environment variables TMP and TEMP defined.]

6. DoubleSpace: We heard it takes up to 4 hours to DoubleSpace the Quaderno/33 HDD, so none of us bother to use it. Has anybody else tried it yet?

Hope this helps,
Jim Blackson
pegasus@guest.atc.olivetti.com

From
uwm.edu!spool.mu.edu!howland.reston.ans.net!europa.eng.gtefsd.com!MathWorks.Com!
news.duke.edu!acpub.duke.edu!mvolow Wed Mar 23 03:29:26 CST 1994
Article: 13156 of comp.sys.palmtops
Path:
uwm.edu!spool.mu.edu!howland.reston.ans.net!europa.eng.gtefsd.com!MathWorks.Com!
news.duke.edu!acpub.duke.edu!mvolow
From: mvolow@acpub.duke.edu (Michael Volow)
Newsgroups: comp.sys.palmtops
Subject: Re: Quaderno service evaporated ?
Date: 23 Mar 1994 06:09:54 GMT
Organization: Duke University; Durham, N.C., USA
Lines: 14
Message-ID: <2momfi\$idk@news.duke.edu>
References: <2mnj2e\$9ij@news.scri.fsu.edu>
NNTP-Posting-Host: raphael.acpub.duke.edu
Keywords: Quaderno service Olivetti

Regarding Olivetti Quaderno service, their number is 800 633 9909. I just called them today to order an extra battery pack for my Quaderno XT. BTW, they're offering Quaderno 33 60m HD (386 20MHz) for about \$1000-1100. less than their original price, but not a great price for a 386 laptop, until you consider 2.9 lbs, backlit VGA (original Quaderno was non-backlit), and smaller than anything else form factor (approx 8.5 x 5.5 x 1 inches). But I think I'll wait until the sub-sub-notebook market shakes out a little bit more. After my 2.2 lb Quaderno, even my son's 4-lb 230 Mac Duo seems bigger than I like.

--
Michael Volow, M.D. (mvolow@acpub.duke.edu)
Department of Psychiatry, Durham VA Medical Center, Durham, NC
919 286 0411 Ext 6933

From uwm.edu!cs.utexas.edu!uunet!olivea!flash!donh Wed Jan 5 15:58:25 CST 1994
Article: 11462 of comp.sys.palmtops
Path: uwm.edu!cs.utexas.edu!uunet!olivea!flash!donh
From: donh@flash.ATC.Olivetti.Com (Don Herrick)
Newsgroups: comp.sys.palmtops
Subject: Re: Repost Quaderno fix for cshow (Please...)
Date: 5 Jan 1994 19:23:58 GMT
Organization: Olivetti ATC; Cupertino CA, USA
Lines: 91
Message-ID: <2gf44e\$bcm@olivea.ATC.Olivetti.Com>
References: <1994Jan5.124600.8933@Informatik.TU-Muenchen.DE>
NNTP-Posting-Host: flash.atc.olivetti.com

In article <1994Jan5.124600.8933@Informatik.TU-Muenchen.DE> danher@informatik.tu-muenchen.de (Daniel Hernandez) writes:
>I hate to ask, but even though I thought I'd saved the posting
>describing how to get cshow to work on the Quaderno (old XT model),
>now that I got cshw860a.zip I just cannot find it anywhere!
>
>Thanks!

The following is from my colleage, Jim Blackson:

Don Herrick
Olivetti

=====
I was unable to convince Mr. Berry to modify CSHOW for the Quaderno. However, there seems to be a work around.

My investigation shows CSHOW is timing the vertical sync and display enable bits in the Input Status Register (port 3DAh) of the video controller. Since the Quaderno uses an LCD, perhaps the timing is sufficiently different from a pure CGA controller to cause a problem for CSHOW.

Work Around:

My hardware engineer says the Chips & Technologies 82C426 video controller has two methods to emulate vertical sync and display enable (horizontal sync) timings. The Quaderno currently uses method 0. We have discovered that method 1 allows CSHOW to run.

To change the timing emulation, set bit 4 of register DFh to 1, using port 3D4h for the register index, and 3D5h as the data port. The following DEBUG script shows how to do this.

----- script starts here -----

```
a
mov dx, 3d4
mov al, df
cli
out dx, al
jmp 109
xchg al, ah
inc dx
in al, dx
jmp 10f
or al, 10
dec dx
xchg al, ah
out dx, al
jmp 117
xchg al, ah
inc dx
out dx, al
sti
mov ax, 4c00
int 21
```

```
rcx
21
n method1.com
w
q
```

----- script ends here -----

Save the script above in a DOS text file, say, m.src. Feed this file to DEBUG. For example:

```
DEBUG <m.src
```

This script creates a file called method1.com, which selects "method 1" timing emulation. Note: the blank line after the "int 21" line is necessary to stop DEBUG's assembler.

Now, to run CSHOW on the Quaderno, at the DOS prompt type...

```
method1
cshow /vA6
```

The /vA6 option loads an AT&T 6300 video driver. When displaying a graphics file, choose driver K in CSHOW.

Hope this helps.

```
...jab
Jim Blackson
Pegasus, Inc.
pegasus@guest.atc.olivetti.com
```

```
=====
If at first you don't succeed, try, try, again. Then quit. There's no use
being a damn fool about it.          .....
.... - W. C. Fields                  .....
```

```
From uwm.edu!cs.utexas.edu!uunet!mnemosyne.cs.du.edu!nyx10!mlzwille Wed Jan 12
13:37:59 CST 1994
Article: 11620 of comp.sys.palmtops
Newsgroups: comp.sys.palmtops,comp.sys.handhelds
Path: uwm.edu!cs.utexas.edu!uunet!mnemosyne.cs.du.edu!nyx10!mlzwille
From: mlzwille@nyx10.cs.du.edu (Melvin Zwillenberg)
Subject: Olivetti Quaderno etc. for Sale
Message-ID: <1994Jan12.033448.906@mnemosyne.cs.du.edu>
X-Disclaimer: Nyx is a public access Unix system run by the University
of Denver for the Denver community. The University has neither
control over nor responsibility for the opinions of users.
Sender: usenet@mnemosyne.cs.du.edu (netnews admin account)
Organization: Nyx, Public Access Unix at U. of Denver Math/CS dept.
Distribution: na
Date: Wed, 12 Jan 94 03:34:48 GMT
Lines: 28
Xref: uwm.edu comp.sys.palmtops:11620 comp.sys.handhelds:15237
```

FOR SALE:

Olivetti Quaderno 10 MHZ V30. This is midway between a subnotebook and a palmtop. It has 1 MB RAM, 20 MB hard disk. Non-backlit but readable CGA LCD screen. Uses NiCad battery pack or 4 AA alkaline cells. One PCMCIA card slot, works with either SRAM or FlashRAM. Purchased 6/93. Includes Personal Assistant software (Calendar, Organizer, Calculator, Text Editor, etc. ALSO DIGITALLY RECORDS SOUND. BUILT-IN MICROPHONE AND SPEAKER. Sound notes may be appended to documents.

Including the following accessories:

A.C Adapter, extra NiCad pack (2 Nicad packs total), file transfer cable, parallel cable, serial cable. Manual. OLIVETTI BLACK CASE DESIGNED FOR

THE QUADERNO with compartments for computer, a.c. adapter, cables, battery pack, manual. ALL for \$500. + shipping.

The following extras are available:

For \$20. more, I will include Stacker 2.0 (manual and disk) and leave the hard drive Stacked to 40 MB.

For \$100. more, I will include a 1 MB SRAM card.

Please reply by e-mail.

From uwm.edu!news.moneng.mei.com!howland.reston.ans.net!xlink.net!zib-berlin.de!irz401!aw4 Fri Jan 21 11:33:16 CST 1994
Article: 11797 of comp.sys.palmtops
Path: uwm.edu!news.moneng.mei.com!howland.reston.ans.net!xlink.net!zib-berlin.de!irz401!aw4
From: aw4@irz.inf.tu-dresden.de (Andreas Westfeld)
Newsgroups: comp.sys.palmtops
Subject: Quaderno: HD bootable (easy!)
Date: 21 Jan 1994 10:28:40 +0100
Organization: Dept. of Computer Science, TU Dresden, Germany
Lines: 15
Distribution: world
Message-ID: <2ho788\$eha@irz405.inf.tu-dresden.de>
Reply-To: westfeld@freia.inf.tu-dresden.de
NNTP-Posting-Host: irz405.inf.tu-dresden.de
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Keywords: quaderno

I've patched the sys.com of DR-DOS 6.0. Now it is usable with other Versions of DOS. It is very useful to make Little Quaderno's hard disk bootable. You only have to copy the sys.com, ibmbio.com, ibmdos.com, command.com onto a RAM-Disk using Interlnk. A RAM-Disk driver is included in Quadernos MS-DOS.

sys c: (with the patched sys.com), and the HD is bootable.

If you want the patched version of sys.com (uencoded), please send me a short mail to aw4@irz.inf.tu-dresden.de!

--

Andreas äöüß=aeoeuesz
westfeld@freia.inf.tu-dresden.de (141.76.99.1)

From
uwm.edu!cs.utexas.edu!uunet!MathWorks.Com!europa.eng.gtefsd.com!library.ucla.edu!
!agate!msuinfo!harbinger.cc.monash.edu.au!bruce.cs.monash.edu.au!merlin!mel.dit.
csiro.au!its.csiro.au!dmssyd.syd.dms.CSIRO.AU!metro!ultima!kralizec.zeta.org.au!
ixgate!al Wed Jan 26 10:08:06 CST 1994
Article: 16696 of comp.sys.laptops
Path:
uwm.edu!cs.utexas.edu!uunet!MathWorks.Com!europa.eng.gtefsd.com!library.ucla.edu!
!agate!msuinfo!harbinger.cc.monash.edu.au!bruce.cs.monash.edu.au!merlin!mel.dit.
csiro.au!its.csiro.au!dmssyd.syd.dms.CSIRO.AU!metro!ultima!kralizec.zeta.org.au!
ixgate!al

ister.runge
From: alister.runge@f54.n54.z3.fido.zeta.org.au (Alister Runge)
Message-ID: <d352a5ab@Kralizec.fido.zeta.org.au>
Newsgroups: comp.sys.laptops
Subject: OLIVETTI QUADERNO USERS?
Organization: Fidonet. Gate admin is fido@socs.uts.edu.au
Date: 12 Jan 94 13:16:00 GMT
Lines: 44

Original to: Hansolav@Oslonett.No

hansolav@oslonett.no (Hans Olav Elseboe), via Kralizec 3:713/602

H> I wonder if there is anyone out there except me who has bought the first
H> version of the Olivetti Quaderno sub-notebook (the one that is based on
lots!
H> the NEC V30-processor, not the 386 version)? I would really like to get
H> in touch with other users. (Please mail me!)
Also look at the Palmtops Forum for info on the Quadernos and contact
with other users.

H> And does anyone know of any utilities/applications written especially
H> for the Quaderno? Does anyone know of any way to convert the sound
The beauty of the Quad is its' ability to run any DOS programs that run on
xt processors.. ie. MOST software, even Windows 3.0 in real mode.

Interlnk is great for hooking up to a desktop PC, for transfer speed and
also printing, I'd recommend getting the parallel adapter cable kit.

H> files from the recorder to any other sound format? Has anyone had any
H> experience with using PCMCIA? (Has anyone tried a PCMCIA modem?) Has
No
H> anyone tried using any 'disk doubling' software with it (for instance
H> the MS-DOS 6.2 DoubleSpace)?

I run Stacker ver 2.01, (it was a special price :)) and with have had zero
problems after 6 months use. I get about 1.8 compression ratio on the hrad
disk and performance is not affected noticeably.

The voice recording features still work fine, and with careful config.sys
and autoexec.bat setup, I still have ample memory to load TSR's high and
have access to PA address/phone/voice record etc.

Cheers!

Alister

-- SPEED 1.30 [NR]: AAAAAAACCCCCCCCCIIIIIDDDD JJJJAAAAAAAAAZZZZZZ!!! :):):):)

--- TPCB V0.2c

* Origin: Prophet BBS, Western Sydney Australia (3:54/54)

From aw4@irz.inf.tu-dresden.de Wed Nov 2 17:58:20 1994
From: aw4@irz.inf.tu-dresden.de
Subject: Re: Informationen - lechz :)
To: sbor0087@rz.uni-hildesheim.de (Steffen Borm)
Date: Wed, 2 Nov 1994 15:01:20 +0100 (MET)
Content-Transfer-Encoding: quoted-printable
X-Mailer: ELM [version 2.4 PL23]

Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Content-Length: 8142

Ich hab's endlich geschafft, mal an die Diskette zu denken: Hier ist, was ich ueber die Ports weiss:

1. Host-Interface

Die Uebertragung von Daten-, Programm-, Steuer- und Statusinformationen zwischen der Host-CPU und dem DSP werden von den sprachbezogenen BIOS-Erweiterungen ausgefuehrt. Dabei werden die Port-Register des Host-Interfaces im I/O-Adressbereich 0x350 bis 0x357 verwendet.

2. Vocoder-Betrieb

Alle Vocoder verwenden die Register des Host-Interface-Ports wie folgt:

350	HDR0	W	Control Byte
351	HDR1	R/W	Program ID
352	HDR2	R	Data to Host
353	HDR3	W	Data from Host
354	HDR4	R/W	Gain Control
355	HDR5	W	Timed Interrupt Control
356	HSR6	R	Host Data Status
357	HSR7	R	DSP Data Status

Das Schreiben in die Status-Register HSR6 und HSR7 sollte generell nicht durch Applikationen geschehen. Im ADSP-2111 User's Manual sind moegliche Ausnahmen und ebenso die Boottime-Definitionen der HIP-Register beschrieben.

Control-Byte:

0	Rec
1	Play
2	HIP
7	AGC/AVC

AGC/AVC zeigt an, ob der DSP die AGC (automatische Verstaerungsregelung) vom Codec waehrend der Aufnahme und die AVC (automatische Lautstaerkeregung) waehrend der Wiedergabe beeinflusst. Bei gesetztem Bit koennen AGC bzw. AVC wirksam werden, was nur bei gesetztem Rec- bzw. Play-Bit geschieht.

Waehrend Halbduplex-Betrieb (entweder Aufnahme oder Wiedergabe) zeigt ein gesetztes HIP-Bit an, dass der Host-Interface-Port Quelle bzw. Ziel der Daten ist (anstelle des seriellen Ports des DSP). Diese Auswahl wird benutzt, um hosteigene PCM-Daten in ein anderes Format zu wandeln (waehrend der Aufnahme) oder umgekehrt (waehrend der Wiedergabe). Der DSP generiert immer, wenn er bereit ist, einen Datenblock zu empfangen, einen Interrupt im Host (IRQ2). Der Host schreibt dann (normalerweise ueber die erweiterte BIOS-Funktion 44C5h) den Datenblock byteweise nach HDR3.

Bis zum naechsten Interrupt liest der Host (normalerweise ueber die erweiterte BIOS-Funktion 44C4h) dann einen Block uebersetzter Daten byteweise aus HDR2. Man beruecksichtige, dass das Bit nur dann wirkt, wenn Rec oder Play gleichzeitig gesetzt ist. Die Groesse der Datenbloecke haengt von deren Kodierung ab und wird spaeter erlaeutert. Da die I/O-Geschwindigkeit nicht an den Codec gebunden ist, ist dieser Betrieb nicht auf Echtzeit beschraenkt.

Waehrend Vollduplex-Betrieb (Aufnahme und Wiedergabe

gleichzeitig aktiv) ermöglicht ein gesetztes HIP-Bit die gleichzeitige Ein-/Ausgabe zum Host-Interface-Port neben der PCM-Ein-/Ausgabe zum SPort. Das Protokoll fuer diese Ausgabe wird weiter unten beschrieben. Ist das Bit geloescht, dann bewirkt der Vollduplex-Betrieb nur SPort-Ein-/Ausgabe. Zur Zeit, da dieses Dokument erstellt wurde, ist diese Funktionalitaet nicht implementiert.

Gesetztes Rec-Bit (Aufnahme) aktiviert den Encoder-Teil des aktuellen Coders, der in den DSP-Programmspeicher geladen wurde. Sind HIP und Play geloescht, dann wird im Host ein Interrupt (IRQ2) ausgeloescht, sobald der DSP einen Block senden kann. Der Mindestabstand zwischen den Interrupts betraegt 40 ms. Dieser Block wird gewoehnlich ueber die erweiterte BIOS-Funktion 44C4h gelesen aus HDR2. Die Blockgroesse wird wiederum spaeter in diesem Abschnitt behandelt.

Gesetztes Play-Bit (Wiedergabe) aktiviert den Decoder-Teil des aktuellen Coders im DSP-Speicher. Ist das Rec-Bit geloescht, dann wird im Host ein Interrupt (IRQ2) ausgeloescht, sobald der DSP einen neuen Block aus HDR3 lesen kann (gewoehnlich ueber die erweiterte BIOS-Funktion 44C5h).

Die Blockgroesse der Uebertragenen Daten haengt von der Kodierung der Daten ab:
(nicht groesser als 320 Bytes)

Die BIOS-Funktion 44C1h (Programm in DSP-Speicher laden) stellt auch die Programminformation in HDR1 zur Verfuegung, wie sie im Register DL als Program-Selector uebergeben wurde.

HDR2 wird zur Datenuebertragung vom DSP zum Host waehrend der Aufnahme genutzt. HDR3 wird waehrend der Wiedergabe zur Datenuebertragung vom Host zum DSP verwendet.

Die Verstaerkungsregelung in HDR4 wird von jedem Vocoder zur Boot-Time initialisiert und anschliessend von den AGC- und AVR-Routinen modifiziert, wenn sie im Aufnahme-, Wiedergabe- oder Echo-Betrieb aktiviert sind, damit die Verstaerkung nahe der Saettigungsgrenze gehalten wird, aber keine Uebersaettigung auftritt. Die Host-CPU kann dieses Register jederzeit zur Bestimmung der aktuellen Pegel lesen (waehrend des AGC/AVC-Betriebes. Wird das Register von der AGC/AVC-Routine modifiziert, dann ist die Wirkung unmittelbar.

Die Voreinstellung der Verstaerkungspegel, wie sie bei der Initialisierung des Vocoders festgelegt werden, koennen vom Host geaendert werden, indem ein neuer Wert nach dem Booten des DSP in HDR4 geschrieben wird. In diesem Falle wird der neue Wert bei der naechsten Aufnahme, Wiedergabe oder Echo-Operation aktiv. Ein Reboot des DSP setzt diese Einstellung auf den Default-Wert zurueck. Man beachte, dass die Verstaerkungseinstellung durch den Host nur anfaenglich ist. Sie wird wahrscheinlich spaeter von der AGC/AVC-Routine wieder geaendert.

Das Format von Gain-Control (HDR4):

Bit

7 SCH, immer 1 (ausser spec. XT-Bus)

6-4 ogain Verstaerkung

111 2 6 dB

110 4 12 dB*

101 8 18 dB

100 16 24 dB

011 32 30 dB

010 64 36 dB

001 128 42 dB

000 256 48 dB

3-2 reserviert

1-0 igain Verstaerkung

11 63 36 dB*

10	6.3	16 dB
01	200	46 dB
00	20	26 dB

*default

SCH muss immer gesetzt sein, fuer jede Hardware ausser fuer einen einzelnen XT-Bus-einfuegbares DSP-Board mit altem Codec. Dieses Board wurde fuer zeitige Softwareentwicklung genutzt.

OGain setzt die Verstaerkung des digitalen Verstaerkers, der zum Decoder-Output jedes Vocoders gehoert. IGain setzt die analoge Aufnahmeverstaerkung.

Die zeitgesteuerten Interrupts (Timed Interrupt Control) in HDR5 werden benutzt, wenn weder Aufnahme noch Wiedergabe laeuft und im Host periodische Interrupts ausgeloeset werden sollen (IRQ2). Der zeitliche Abstand zwischen den Interrupts wird durch das Byte bestimmt, welches in HDR5 geschrieben wird.

Jeder Wert groesser null bedeutet ein Vielfaches von 40 ms. Eine Null loest einen einzelnen Interrupt aus (und verbietet dann die Interrupts). Periodische Interrupts werden von FF und RW der Speech TSR benutzt, um die LCD-Routinen anzusteuern. Sie werden auch benutzt, um den Status von kritischen DOS-Abschnitten zu pollen, waehrend eine externe Taste gedruickt wurde.

Die Status-Register HSR6 und HSR7 sind hardwaremaessig festgelegt; Details werden im ADSP-2111 User's Manual behandelt. Sie werden in erster Linie fuer die Synchronisation der Datenuebertragung zwischen Host und DSP verwendet.

3. DSP Selbsttest-Betrieb

Die Host-Interface-Port(HIP)-Datenregister sind fuer den Selbsttest wie folgt definiert:

350	HDR0	W	Control Byte
351	HDR1	R/W	Memory Result 1
352	HDR2	R	Memory Result 2
353	HDR3	R	Memory Result 3
354	HDR4	R	Program Control Result
355	HDR5	R	Compression Unit Result

Wenn der Selbsttest geladen ist, dann stehen mehrere Subtests zur Verfuegung, die ausgefuehrt werden, wenn ein Selektor in das HDR0 ausgegeben wird. Diese Selektoren sind:

- 00 - Abbruch eines moeglicherweise laufenden Tests.
- 01 - interner Test
- 02 - Interface-Test
- 03 - Codec-Test
- 04 - interaktiver Host-Interface-Port-Test (HIP)
- 05 - interaktiver Memory-Test
- 06-FF reserviert

Selbsttaetige Beendigung nicht-interaktiver Tests kann durch Abfrage des HDR0 festgestellt werden. Nach vollstaendigem Test steht in HDR0 eine Null. Interaktive Tests werden nur durch die Host-CPU beendet, indem ein Nullselektor in HDR0 geschrieben wird.

HDR1 bis HDR5 werden zur Rueckgabe von Testergebnissen an die Host-CPU verwendet und im Falle interaktiver Tests zur Steuerung der Subtests. Die Verwendung dieser Register haengt vom aufgerufenen Subtest ab.

--

Andreas Westfeld

--

Albeite floehlich ohne Mullen und Knullen.

Und immel dalan denken: Albeit macht Fleude!

Internet: westfeld@inf.tu-dresden.de

From uwm.edu!cs.utexas.edu!uunet!olivea!flash!blackson Mon Nov 22 07:21:40 CST 1993

Article: 10841 of comp.sys.palmtops

Path: uwm.edu!cs.utexas.edu!uunet!olivea!flash!blackson

From: blackson@flash.ATC.Olivetti.Com (Jim Blackson/Pegasus)

Newsgroups: comp.sys.palmtops

Subject: Quaderno printer/FDD connector pin-out

Date: 22 Nov 1993 06:31:29 GMT

Organization: Olivetti ATC; Cupertino CA, USA

Lines: 135

Message-ID: <2cpmc1\$39j@olivea.ATC.Olivetti.Com>

NNTP-Posting-Host: flash.atc.olivetti.com

Keywords: Quaderno, Quaderno/33, printer port

For your information here is the pin-out for the combination printer/FDD port of the Quaderno and Quaderno/33. Enjoy.

Jim Blackson Pegasus, Inc.
blackson@flash.atc.olivetti.com

Quaderno and Quaderno/33 parallel/FDD port pin assignment

Legal Formalities
=====

```
/*----- Disclaimer -----*\
*
* While we have made a reasonable effort to ensure the following *
* information is correct, Olivetti, Inc., its subsidiaries, and *
* its suppliers give no warranties with respect to the information *
* below, and all implied warranties including any warranty of *
* merchantability and fitness for purpose are hereby excluded. *
* IN NO EVENT WILL OLIVETTI, ITS SUBSIDIARIES, OR ITS SUPPLIERS *
* BE LIABLE FOR INDIRECT CONSEQUENTIAL, INCIDENTAL OR SPECIAL *
* DAMAGES EVEN IF OLIVETTI HAS BEEN ADVISED OF THE POSSIBILITY *
* OF SUCH DAMAGES. *
*
*\----- Disclaimer -----*/
```

In other words, if you damage your Quaderno or Quaderno/33, that's your tough luck! You've been warned.

Pin Assignment
=====

Both the Quaderno and Quaderno/33 use the JAE Tx20A-36R-D25F-AllP 36-pin "mini" female connector as a combined printer/FDD port. (The male half-pitch connector is part number Tx20A-36PH1-D2P1-D1.)

When looking into the connector, the pins are numbered as follows. Odd pins on top, even pins on the bottom, ordered right-to-left.

```
-----
\ 35      .....  3  1  /
 \ 36      .....  4  2  /
-----
```

The pin assignments of Quaderno and Quaderno/33 are almost same. The different pins are 20, 34, and 35. These pins are GND on the Quaderno. They are used for FDD power on the Quaderno/33.

Half of the pins, 1 - 18, are used for the printer. The rest, 19-36, are used for the FDD. If you want to make your own printer cable, the column on the right shows the pin numbers for a 25-pin D-SUB female connector (Note: pins 20 and 23 are no connection).

Half-pitch JAE connector		D-SUB Printer connector
-----		-----
1	STB	1
2	P_D0 (Printer Data)	2
3	P_D1	3
4	P_D2	4
5	P_D3	5
6	P_D4	6
7	P_D5	7
8	P_D6	8
9	P_D7	9
10	SP_ACK	10
11	SP_BUSY	11
12	PE	12
13	SLCT	13
14	AFD	14
15	ERR	15
16	INIT	16
17	SLIN	17
18	GND	18
19	GND	19
		20 (no connection!)
20	VFDD (FDD power: Quaderno/33 only)	21
21	FDIDX	
22	FDTK0	
23	FDWP	
24	FDRDD	
25	FDCHG	
26	FDDS1	
27	FDMO1	
28	FDWD	
29	FDWE	
30	reserved (make no connection)	
31	FDHS	
32	FDDIRC	
33	FDSTEP	
34	VFDD (FDD power: Quaderno/33 only)	22
		23 (no connection!)
35	FDDINS (FDD power: Quaderno/33)	24
36	GND	25

Quaderno/33 FDD power
=====

The specification for three pins were changed, to supply power to the Quaderno/33 external floppy Disk Drive (FDD).

Pin 35, FDDINS-, is used to detect the type of FDD attached, and thus controls whether the Quaderno/33's FDD power circuit is enabled.

If FDDINS- is low (connected to ground), the original Quaderno external FDD is connected, so the VFDD power circuit will not be enabled.

This detection circuit is necessary because the original Quaderno FDD connects pins 20 and 34 (and 35) to ground, shorting the VFDD lines!

However, the Quaderno/33 external FDD sets FDDINS- to no connect. This appears as HI, enabling the VFDD power circuit. When the software turns on the FDD power, power will flow through VFDD to the FDD.

VFDD is tied to the output from the AC adapter or the battery pack. When using the AC adapter, VFDD typically is 12V DC, supporting a current of about 0.7 Amperes, with a peak current of 1.0 Ampere. When running from a fully-charged battery pack, VFDD is typically 7.2V DC, supporting a current of 0.7 Amperes, with a peak current also of 1.0 Amperes.

```
** WARNING ***** WARNING ***** Quaderno/33 ***** WARNING ***** WARNING **
*
* If you draw too much current, or short pins 20 and 34 to ground *
* without grounding pin 35 (effectively shorting VFDD to ground), *
* you might _damage_ your Quaderno/33, and also... *
*
* 1) blow a fuse on the motherboard; *
* 2) cause a reset (the Quaderno was starved of power); *
* 3) cause a shut down (the Quaderno was starved of power); *
*
***** WARNING ***** WARNING ***** WARNING ***** WARNING *****
```

That's all folks!

From uwm.edu!cs.utexas.edu!swrinde!elroy.jpl.nasa.gov!decwrl!olivea!donh Tue Apr 27 16:36:26 CDT 1993
Article: 13914 of comp.sys.handhelds
Path: uwm.edu!cs.utexas.edu!swrinde!elroy.jpl.nasa.gov!decwrl!olivea!donh
From: donh@flash.ATC.Olivetti.Com (Don Herrick)
Newsgroups: comp.sys.handhelds
Subject: Re: WANT TO BUY
Date: 27 Apr 1993 19:49:25 GMT
Organization: Olivetti ATC; Cupertino CA, USA
Lines: 73
Distribution: world
Message-ID: <lrk2o5\$ij0@olivea.ATC.Olivetti.Com>
References: <lrk0clINNiug@senator-bedfellow.MIT.EDU>
NNTP-Posting-Host: flash.atc.olivetti.com

In article <lrk0clINNiug@senator-bedfellow.MIT.EDU> jsd@athena.mit.edu (John Dippold) writes:

```
>
> I am looking for a very low end palmtop
> to use when traveleing. Preferably enough disk to do minimal
> work(30 meg) and the same with RAM(4 Meg). I would also
> like one with the ability to switch from 110V to 220V
> for international electricity variations. If any one has
> any thing even close to this please let me know.
>
```

You might want to look into our 2 lb. palmtop, the Olivetti Quaderno. I am including further information on the machine below. I can supply some further information, but I would prefer that you call the 800 number shown below first.

Name: Olivetti Quaderno (Quaderno means schoolbook in Italian)

Type: Subnotebook, palmtop or companion PC with voice feature

Processor: NEC V30HL running at 16 MHz (a low power highly integrated CPU compatible with the Intel 8086)

Memory: 1 MB (640 KB base plus 360 KB LIM expanded)

Display: Reflective 7.5" with DCGA (640 x 400) resolution, 80 x 25 text

Keyboard: 93/94 key enhanced with 16 key separate numeric keypad

Mass storage: 20 MB hard disk / 3.5" external floppy optional / SRAM or FLASH PCMCIA IC cards optional

Integrated MS-ROM DOS 5.0 / file transfer software / Notepad / Calculator software: Schedule / Phone book / File manager / Organizer / Voice mgr

Compatibility: Compatible with most DOS software (Lotus 1-2-3, etc.) using the 8088 or 8086 processor, a hard disk and CGA or AT&T or Toshiba 640 x 400 monochrome graphic modes.

PCMCIA slot: 1 rel 1.0 Type II slot supporting ROM, SRAM or Flash cards I/O cards not supported, 3rd party fax/modem to be available.

Connectors: Microphone / headset / RS232 serial / parallel & floppy disk

Voice feature: Integrated microphone and speaker allows voice annotation of documents (created by integrated software or by third party software such as WordPerfect 5.0). PC can be also used as a dictation machine with the display closed. Rec, play, stop, pause, FF and rew function buttons are on back of display. Integrated display shows time of day, recording counter and other status indicators.

Power: NiCad battery pack or 6 AA alkalines provide up to 8 hr life. Power management slows CPU, turns off display and hard disk and eventually places PC in sleep mode. Resume to work state by keypress.

Included accessories: Lightweight universal AC adapter / NiCad battery pack / file transfer cable / cable adapter

Options: External floppy drive / battery packs / cable kit / car adapter / carrying case

Dimensions: 8.25" x 5.8" x 1.25"

Weight: 2.3 lb. including battery pack

Availability: Olivetti North America supplies this PC directly via 800 number. \$875 for basic unit with accessories. \$1050 for basic unit, accessories, floppy drive, carrying case, and cable kit.

(1) 800 - 633 - 9909 to order or for more information
..... what's a .signature?.....

From uwm.edu!spool.mu.edu!olivea!donh Tue Jun 1 10:23:11 CDT 1993
Article: 7051 of comp.sys.palmtops
Path: uwm.edu!spool.mu.edu!olivea!donh
From: donh@flash.ATC.Olivetti.Com (Don Herrick)

Newsgroups: comp.sys.palmtops
Subject: Re: Sharp, HP products - experiences
Date: 31 May 1993 23:59:03 GMT
Organization: Olivetti ATC; Cupertino CA, USA
Lines: 76
Message-ID: <lue647\$a9i@olivea.ATC.Olivetti.Com>
References: <30MAY93.22473824@wl.aecl.ca>
NNTP-Posting-Host: flash.atc.olivetti.com

In article <30MAY93.22473824@wl.aecl.ca> zukicn@wl.aecl.ca writes:
>I am considering purchasing a palmtop/handheld/subnotebook...
>
>So far I had a look at Sharp IQ8300 and PC3000 series. It appears that
>HP95LX/100LX, Olivetti models are not as widely available (locally) as I
>hoped.
>
>Could someone post (relatively) brief summary of features for those
>models that belong to the category (I looked for a FAQ on news.answers
>unsuccessfully).
>
The Quaderno is available and would seem to meet your needs. Here is
a summary of specs:

=====
Here is some information on our 2 lb. palmtop, the Olivetti Quaderno, I
can supply some further information, but I would prefer that you call the
800 number shown below first.

Name: Olivetti Quaderno (Quaderno means schoolbook in Italian)
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Keyboard: 93/94 key enhanced with 16 key separate numeric keypad
Mass storage: 20 MB hard disk / 3.5" external floppy optional / SRAM or
FLASH PCMCIA IC cards optional
Integrated MS-ROM DOS 5.0 / file transfer software / Notepad / Calculator
software: Schedule / Phone book / File manager / Organizer / Voice mgr
Compatibility: Compatible with most DOS software (Lotus 1-2-3, etc.) using
the 8088 or 8086 processor, a hard disk and CGA or AT&T or
Toshiba 640 x 400 monochrome graphic modes.
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I/O cards not supported, 3rd party fax/modem to be available.
Connectors: Microphone / headset / RS232 serial / parallel & floppy disk
Voice feature: Integrated microphone and speaker allows voice annotation of
documents (created by integrated software or by third party
software such as WordPerfect 5.0). PC can be also used as a
dictation machine with the display closed. Rec, play, stop,
pause, FF and rew function buttons are on back of display.
Integrated display shows time of day, recording counter and

other status indicators.

Power: NiCad battery pack or 6 AA alkalines provide up to 8 hr life. Power management slows CPU, turns off display and hard disk and eventually places PC in sleep mode. Resume to work state by keypress.

Included Lightweight universal AC adapter / NiCad battery pack / file accessories: transfer cable / cable adapter

Options: External floppy drive / battery packs / cable kit / car adapter / carrying case

Dimensions: 8.25" x 5.8" x 1.25"

Weight: 2.3 lb. including battery pack

Availability: Olivetti North America supplies this PC directly via 800 number.

(1) 800 - 633 - 9909 to order or for more information
..... what's a .signature?.....

From

uwm.edu!ux1.cso.uiuc.edu!howland.reston.ans.net!usc!elroy.jpl.nasa.gov!decwrl!olivea!donh Fri Jun 11 16:21:09 CDT 1993

Article: 7329 of comp.sys.palmtops

Path:

uwm.edu!ux1.cso.uiuc.edu!howland.reston.ans.net!usc!elroy.jpl.nasa.gov!decwrl!olivea!donh

From: donh@oliveb.ATC.Olivetti.Com (Don Herrick)

Newsgroups: comp.sys.palmtops

Subject: Re: Quaderno INFO wanted!!

Date: 11 Jun 1993 17:21:57 GMT

Organization: Olivetti ATC; Cupertino CA, USA

Lines: 77

Message-ID: <lvaevl\$9jv@olivea.ATC.Olivetti.Com>

References: <1993Jun11.142644.1@research.ptt.nl>

NNTP-Posting-Host: flash.atc.olivetti.com

In article <1993Jun11.142644.1@research.ptt.nl> kamp@research.ptt.nl writes:

>Hi,

>

>who is able to give me the technical specs of the

>Olivetti Quaderno palmtop computer?

>

>I'm looking for such a computer and this one seems to be fine. Can somebody

>give me a better choice than a quaderno.

Whether there is a better choice depends on your requirements and preferences. Quaderno is a good DOS machine with full display, hard disk and voice processing capabilities which weighs in at 1 kg. Below are the general specs. Contact your local Olivetti dealer for a look.

Name: Olivetti Quaderno (Quaderno means schoolbook in Italian)

Type: Subnotebook, palmtop or companion PC with voice feature

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Memory: 1 MB (640 KB base plus 360 KB LIM expanded)

Display: Reflective 7.5" with DCGA (640 x 400) resolution, 80 x 25 text

Keyboard: 93/94 key enhanced with 16 key separate numeric keypad

Mass storage: 20 MB hard disk / 3.5" external floppy optional / SRAM or FLASH PCMCIA IC cards optional

Integrated MS-ROM DOS 5.0 / file transfer software / Notepad / Calculator software: Schedule / Phone book / File manager / Organizer / Voice mgr

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PCMCIA slot: 1 rel 1.0 Type II slot supporting ROM, SRAM or Flash cards
Most I/O cards are not supported, but 3rd party fax/modem and paging cards are available.

Connectors: Microphone / headset / RS232 serial / parallel & floppy disk

Voice feature: Integrated microphone and speaker allows voice annotation of documents (created by integrated software or by third party software such as WordPerfect 5.0). PC can be also used as a dictation machine with the display closed. Rec, play, stop, pause, FF and rew function buttons are on back of display. Integrated display shows time of day, recording counter and other status indicators.

Power: NiCad battery pack or 6 AA alkalines provide up to 8 hr life. Power management slows CPU, turns off display and hard disk and eventually places PC in sleep mode. Resume to work state by keypress.

Included accessories: Lightweight universal AC adapter / NiCad battery pack / file transfer cable / cable adapter

Options: External floppy drive / battery packs / cable kit / car adapter / carrying case

Dimensions: 8.25" x 5.8" x 1.25"

Weight: 2.3 lb. including battery pack

Availability: For the US: Olivetti North America supplies this PC directly via 800 number. \$699 for basic unit with accessories. A kit with basic unit, accessories, floppy drive, carrying case, and cable kit is available for \$874.

(1) 800 - 633 - 9909 to order or for more information

For other countries: contact your local Olivetti dealership

..... what's a .signature?.....