Subject: MicroDrive/Turbo and Z80 CP/M card

Posted by Anonymous on Wed, 21 Aug 2019 23:51:51 GMT

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Originally posted by: Bobbi

I installed a MicroDrive/Turbo in my //e yesterday. I wasn't able to get it working until I yanked by Z80 CP/M card. I guess this is not too surprising since the MicroDrive/Turbo uses DMA and the Z80 card also uses the DMA in order to take over the system bus.

Is there any way to have the MicroDrive/Turbo co-exist with a Z80 card, or should I just put my Z80 card in my ][+ and forget about it?

I tried turning off DMA in the MicroDrive settings and that seemed to improve things. However even with DMA disabled I can't boot a CP/M floppy, so there is not much point in keeping the Z80 card in the system at this point.

(Another reason why it is good to have more than one Apple II!)

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Tom Lake on Thu, 22 Aug 2019 00:31:36 GMT

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On Wednesday, August 21, 2019 at 7:51:52 PM UTC-4, Bobbi wrote:

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What CP/M card are you using? I was able to use the ALS CP/M Card (catchy name, that!) and Microsoft's Softcard IIe in my IIe Platinum with no problem.. I used slot 5 for the ALS and 4 for Microsoft.

Tom L

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Thu, 22 Aug 2019 01:24:44 GMT

Originally posted by: bobbi.manners

Tom Lake <tomlake07@gmail.com> wrote:

- > On Wednesday, August 21, 2019 at 7:51:52 PM UTC-4, Bobbi wrote:
- >> I installed a MicroDrive/Turbo in my //e yesterday. I wasn't able to get it working until I yanked by Z80 CP/M card. I guess this is not too surprising since the MicroDrive/Turbo uses DMA and the Z80 card also uses the DMA in order to take over the system bus.

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The CP/M card is a from SPAOE, whoever they were! I think it is pretty much a generic clone of the Microsoft Softcard. It has the same four DIP switches. It was installed in slot 4, and I hadn't thought to try it elsewhere (other than another machine!) Is there any reason to suppose that moving it to a different slot would change the behaviour in any way? I am rather ignorant about how DMA works on the Apple II.

First posting with tin (via Proterm 3.1 on the //e), so hopefully it works!

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Tom Lake on Thu, 22 Aug 2019 01:52:52 GMT

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On Wednesday, August 21, 2019 at 9:24:48 PM UTC-4, Bobbi wrote:

- > Tom Lake <tomlake07@gmail.com> wrote:
- >> On Wednesday, August 21, 2019 at 7:51:52 PM UTC-4, Bobbi wrote:
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Tom L

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Thu, 22 Aug 2019 02:03:03 GMT

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Originally posted by: bobbi.manners

Tom Lake <tomlake07@gmail.com> wrote:

- > On Wednesday, August 21, 2019 at 9:24:48 PM UTC-4, Bobbi wrote:
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Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Fri, 23 Aug 2019 02:33:41 GMT View Forum Message <> Reply to Message

Originally posted by: Anthony Adverse

On Thursday, August 22, 2019 at 12:03:06 PM UTC+10, Bobbi wrote:

>>> On Wednesday, August 21, 2019 at 7:51:52 PM UTC-4, Bobbi wrote:
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Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Fri, 23 Aug 2019 04:13:54 GMT View Forum Message <> Reply to Message

Originally posted by: Bobbi

On Thursday, 22 August 2019 22:33:43 UTC-4, Anthony Adverse wrote:

> On Thursday, August 22, 2019 at 12:03:06 PM UTC+10, Bobbi wrote:

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>>> > On Wednesday, August 21, 2019 at 7:51:52 PM UTC-4, Bobbi wrote:

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Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Sat, 24 Aug 2019 06:25:06 GMT

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Originally posted by: Bobbi

On Friday, 23 August 2019 00:13:56 UTC-4, Bobbi wrote:

- > On Thursday, 22 August 2019 22:33:43 UTC-4, Anthony Adverse wrote:
- >> On Thursday, August 22, 2019 at 12:03:06 PM UTC+10, Bobbi wrote:

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- >>>> > On Wednesday, August 21, 2019 at 7:51:52 PM UTC-4, Bobbi wrote:
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I tried a few things, based on the advice I found here: https://retrocomputing.stackexchange.com/questions/5633/appl e-ii-bus-irq-and-dma-priority (towards the bottom of the page)

#### I tried:

- 1) Z80 card in various slots.
- 2) Filling all slots with cards to make the sure DMA chain is unbroken.
- 3) Turning on switch 1-2 on the Z80 card which is supposed to make it respect the DMA IN line.

None of this made any difference. The status quo is that the Microdrive works fine with the Z80 card in the system, but I can't boot a CP/M floppy. It either hangs, repeatedly prints ERRERRERR or displays a corrupted lo-res screen.

The only thing I have not yet tried is the Microdrive in any slot other than 7.

I think the CP/M floppy I am using expects the card to be in slot 4 or 5, or else it prints COULDN'T FIND STUPID CARD on boot :)

Any bright ideas?

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Sat, 24 Aug 2019 06:29:29 GMT View Forum Message <> Reply to Message Originally posted by: Anthony Adverse On Saturday, August 24, 2019 at 4:25:08 PM UTC+10, Bobbi wrote: > On Friday, 23 August 2019 00:13:56 UTC-4, Bobbi wrote: >> On Thursday, 22 August 2019 22:33:43 UTC-4, Anthony Adverse wrote: >>> On Thursday, August 22, 2019 at 12:03:06 PM UTC+10, Bobbi wrote: >>> >>> >> On Wednesday, August 21, 2019 at 7:51:52 PM UTC-4, Bobbi wrote: >>> >> I installed a MicroDrive/Turbo in my //e yesterday. I wasn't able to get it working until I yanked by Z80 CP/M card. I guess this is not too surprising since the MicroDrive/Turbo uses DMA and the Z80 card also uses the DMA in order to take over the system bus. >>>> >>> >>> >> Is there any way to have the MicroDrive/Turbo co-exist with a Z80 card, or should I just put my Z80 card in my ][+ and forget about it? >>>> >>> >>> >> I tried turning off DMA in the MicroDrive settings and that seemed to improve things. However even with DMA disabled I can't boot a CP/M floppy, so there is not much point in

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What CP/M version do you have? I don't do anything much with mine, all I have is a single boot disk and that's it. But I'll check the version. Otherwise I'd say move the MD out of slot 7 still...

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Originally posted by: Bobbi

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I think it is a Microsoft CP/M 2.23 (with 63K TPA). I can download others from Asimov though ...

Never got CPAM working with this card.

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Sat, 24 Aug 2019 06:39:38 GMT

Originally posted by: Anthony Adverse

I just had another thought, I think I had the MD in slot 5, and a floppy controller in 6 still, with the CP/M card in 4... I'll have to get CloneE out for a go, he's been on holiday.

Α

Subject: Re: MicroDrive/Turbo and Z80 CP/M card

Posted by Anonymous on Sat, 24 Aug 2019 06:41:50 GMT

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Originally posted by: Bobbi

On Saturday, 24 August 2019 02:39:39 UTC-4, Anthony Adverse wrote:

> I just had another thought, I think I had the MD in slot 5, and a floppy controller in 6 still, with the CP/M card in 4... I'll have to get CloneE out for a go, he's been on holiday.

>

> A

Only drawback with that is that the highest slot gets boot priority, and I would sooner that were the Microdrive.

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Sat, 24 Aug 2019 07:21:26 GMT

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Originally posted by: Anthony Adverse

Alrighty then, I have....

Slot 1 Clock

Slot 2 Empty

Slot 3 512k Ramworks Clone

Slot 4 Z80

Slot 5 Disk II

Slot 6 Disk II

Slot 7 MicroDrive Turbo

The cpm version I have is Lingo 128 cp/m 56k Version 2.20B August 1983

All running, not that I can access the MD while the Z80 is in action, and unfortunately my MD has been exclusively in my GS so its not unilaterally bootable at this point.

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Sat, 24 Aug 2019 07:29:46 GMT

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Originally posted by: Bobbi

On Saturday, 24 August 2019 03:21:28 UTC-4, Anthony Adverse wrote:

> Alrighty then, I have....

>

- > Slot 1 Clock
- > Slot 2 Empty
- > Slot 3 512k Ramworks Clone
- > Slot 4 Z80
- > Slot 5 Disk II
- > Slot 6 Disk II
- > Slot 7 MicroDrive Turbo

>

- > The cpm version I have is Lingo 128 cp/m
- > 56k Version 2.20B
- > August 1983

>

> All running, not that I can access the MD while the Z80 is in action, and unfortunately my MD has been exclusively in my GS so its not unilaterally bootable at this point.

> > A

Right now I have:

Slot 1 - Parallel

Slot 2 - Super Serial

Slot 3 - Empty

Slot 4 - Z80 (SPAOE)

Slot 5 - Empty or Disk II

Slot 6 - Disk II

Slot 7 - Microdrive/Turbo

And Ext-80 col in the aux slot.

Subject: Re: MicroDrive/Turbo and Z80 CP/M card

Posted by Anonymous on Sat, 24 Aug 2019 07:32:34 GMT

View Forum Message <> Reply to Message

Originally posted by: Anthony Adverse

On Saturday, August 24, 2019 at 5:21:28 PM UTC+10, Anthony Adverse wrote:

```
> Alrighty then, I have....
```

>

- > Slot 1 Clock
- > Slot 2 Empty
- > Slot 3 512k Ramworks Clone
- > Slot 4 Z80
- > Slot 5 Disk II
- > Slot 6 Disk II
- > Slot 7 MicroDrive Turbo

>

- > The cpm version I have is Lingo 128 cp/m
- > 56k Version 2.20B
- > August 1983

>

> All running, not that I can access the MD while the Z80 is in action, and unfortunately my MD has been exclusively in my GS so its not unilaterally bootable at this point.

> > A

Just for reference I also have an Applied Engineering CP/M which will not boot with that configuration. It starts but keeps re-reading 1 track.

Apple ][ CP/M 44k Ver 4.0B

1985 (Actually might have a corrupt floppy still checking)

No configuration I have will boot this floppy, and it displays rubbish on the screen after initial boot, but its also configured to look for some kind of RAMcard to install as a RAMdrive.

Subject: Re: MicroDrive/Turbo and Z80 CP/M card

Posted by Anonymous on Sat, 24 Aug 2019 07:33:42 GMT

View Forum Message <> Reply to Message

Originally posted by: Bobbi

On Saturday, 24 August 2019 03:29:48 UTC-4, Bobbi wrote:

- > On Saturday, 24 August 2019 03:21:28 UTC-4, Anthony Adverse wrote:
- >> Alrighty then, I have....

>>

- >> Slot 1 Clock
- >> Slot 2 Empty
- >> Slot 3 512k Ramworks Clone
- >> Slot 4 Z80
- >> Slot 5 Disk II
- >> Slot 6 Disk II
- >> Slot 7 MicroDrive Turbo

>> The cpm version I have is Lingo 128 cp/m
>> 56k Version 2.20B
>> August 1983

>>

>> All running, not that I can access the MD while the Z80 is in action, and unfortunately my MD has been exclusively in my GS so its not unilaterally bootable at this point.

>> >> A

>

- > Right now I have:
- > Slot 1 Parallel
- > Slot 2 Super Serial
- > Slot 3 Empty
- > Slot 4 Z80 (SPAOE)
- > Slot 5 Empty or Disk II
- > Slot 6 Disk II
- > Slot 7 Microdrive/Turbo

>

> And Ext-80 col in the aux slot.

By the way Anthony .. does your Z80 card have DIP switches, and if so, how are they set? The MS Softcard has a bank of four switches and many of the clones replicate this (even though three of the four switches are useless since CP/M can't run unless they are set appropriately.)

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Sat, 24 Aug 2019 07:37:33 GMT

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Originally posted by: Anthony Adverse

Softcard CP/M 60k v2.23 Microsoft 1982

Will also boot with the fully loaded configuration. This is the boot system for a WP disk I have. Thats the fully extent of my CP/M library.

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Sat, 24 Aug 2019 07:40:57 GMT

View Forum Message <> Reply to Message

Originally posted by: Bobbi

On Saturday, 24 August 2019 03:37:35 UTC-4, Anthony Adverse wrote:

- > Softcard CP/M
- > 60k v2.23
- > Microsoft
- > 1982

> Will also boot with the fully loaded configuration. This is the boot system for a WP disk I have. Thats the fully extent of my CP/M library.

I think I have that v2.23 60K TPA version too. I may just break out a new box of floppy disks and download a bunch off Asimov to play with. See if there is one that will allow more freedom to move the Z80 to a slot other than 4 or 5.

Also I may experiment some more with turning off DMA on the Microdrive. Right now it is turned on.

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Sat, 24 Aug 2019 07:43:24 GMT View Forum Message <> Reply to Message

Originally posted by: Anthony Adverse

On Saturday, August 24, 2019 at 5:33:43 PM UTC+10, Bobbi wrote:

- > On Saturday, 24 August 2019 03:29:48 UTC-4, Bobbi wrote:
- >> On Saturday, 24 August 2019 03:21:28 UTC-4, Anthony Adverse wrote:
- >>> Alrighty then, I have....

- >>> Slot 1 Clock
- >>> Slot 2 Empty
- >>> Slot 3 512k Ramworks Clone
- >>> Slot 4 Z80
- >>> Slot 5 Disk II
- >>> Slot 6 Disk II
- >>> Slot 7 MicroDrive Turbo

>>>

>>> The cpm version I have is Lingo 128 cp/m

56k Version 2.20B >>>

August 1983 >>>

>>>

>>> All running, not that I can access the MD while the Z80 is in action, and unfortunately my MD has been exclusively in my GS so its not unilaterally bootable at this point.

>>>

>>> A

>>

- >> Right now I have:
- >> Slot 1 Parallel
- >> Slot 2 Super Serial

```
Slot 3 - Empty
Slot 4 - Z80 (SPAOE)
Slot 5 - Empty or Disk II
Slot 6 - Disk II
Slot 7 - Microdrive/Turbo
And Ext-80 col in the aux slot.
```

> By the way Anthony .. does your Z80 card have DIP switches, and if so, how are they set? The MS Softcard has a bank of four switches and many of the clones replicate this (even though three of the four switches are useless since CP/M can't run unless they are set appropriately.)

No dip switches... the block is there but nothing installed. For all intents my card is this http://pineapple.zapto.org/hardware/display.php?query=225 with the jumper block removed, or if you like all switches turned off:)

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Steven Hirsch on Sat, 24 Aug 2019 12:51:11 GMT View Forum Message <> Reply to Message

On 8/24/19 2:35 AM, Bobbi wrote:

- > I think it is a Microsoft CP/M 2.23 (with 63K TPA). I can download others
- > from Asimov though ...

>

>

> Never got CPAM working with this card.

If CP/AM won't work there's probably something out of spec or misbehaving on the card. I wrote the 5.x versions of CP/AM and there's nothing AE-specific about interface with hardware.

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Sat, 24 Aug 2019 21:32:37 GMT View Forum Message <> Reply to Message

Originally posted by: Bobbi

On Saturday, 24 August 2019 08:51:18 UTC-4, Steven Hirsch wrote:

- > On 8/24/19 2:35 AM, Bobbi wrote:
- >> I think it is a Microsoft CP/M 2.23 (with 63K TPA). I can download others
- >> from Asimov though ...

>>

>> Never got CPAM working with this card.

>>

>

- > If CP/AM won't work there's probably something out of spec or misbehaving on
- > the card. I wrote the 5.x versions of CP/AM and there's nothing AE-specific
- > about interface with hardware.

I didn't persist for long with any of the images from Asimov, and it was a few years ago, so I guess I will give it another whirl! Does CP/AM make any assumptions about which slot the card is in?

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Sat, 24 Aug 2019 22:18:13 GMT View Forum Message <> Reply to Message

Originally posted by: Bobbi

On Saturday, 24 August 2019 17:32:39 UTC-4, Bobbi wrote:

- > On Saturday, 24 August 2019 08:51:18 UTC-4, Steven Hirsch wrote:
- >> On 8/24/19 2:35 AM, Bobbi wrote:
- >>> I think it is a Microsoft CP/M 2.23 (with 63K TPA). I can download others
- >>> from Asimov though ...

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>>> Never got CPAM working with this card.

>>> >>

- >> If CP/AM won't work there's probably something out of spec or misbehaving on
- >> the card. I wrote the 5.x versions of CP/AM and there's nothing AE-specific
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Incidentally, my SPAOE Z80 Card looks identical in layout to the Pineapple one Anthony posted a pic of yesterday. Looks to be a complete clone of the real Softcard.

Success!! I managed to get CP/M booting with the Microdrive in slot 7. My setup is Microdrive in slot 7, Dlsk II in slot 6, slot 5 is empty, slot 4 is the Z80 card. Also have a SSC in Slot 2 and Apple Parallel in Slot 1.

I got DATASOFT CP/M 2.23B to boot (63K TPA). I had to make a new new floppy. It seems my old CP/M boot floppy got chewed up somehow in the process of experimenting with this. Also my Z80 card is a bit flakey. The breakthrough was when I touched it while it was plugged and and powered on and suddenly the text screen filled with garbage. After that is seems to work, so I guess there is a dodgy joint on it somewhere. Anyhow ... working!!!!!

Going to go try me some CP/AM now, and see if that works!! I will probably be back with questions:)

# Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Sat, 24 Aug 2019 23:29:29 GMT

View Forum Message <> Reply to Message

Originally posted by: Bobbi

On Saturday, 24 August 2019 18:18:14 UTC-4, Bobbi wrote:

- > On Saturday, 24 August 2019 17:32:39 UTC-4, Bobbi wrote:
- >> On Saturday, 24 August 2019 08:51:18 UTC-4, Steven Hirsch wrote:
- >>> On 8/24/19 2:35 AM, Bobbi wrote:
- >>>> I think it is a Microsoft CP/M 2.23 (with 63K TPA). I can download others
- >>> from Asimov though ...

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>>>

>>>

- >>> If CP/AM won't work there's probably something out of spec or misbehaving on
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- >>> about interface with hardware.

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>

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And CP/AM 5.1.1 is running too!! The copy I downloaded a while back must have been bad. I am wondering if the CP/AM support for the Sider drive could work with the MicroDrive/Turbo, but it is probably not worth the hassle.

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Sun, 25 Aug 2019 02:05:37 GMT View Forum Message <> Reply to Message

### Originally posted by: Anthony Adverse

```
On Sunday, August 25, 2019 at 9:29:31 AM UTC+10, Bobbi wrote:
> On Saturday, 24 August 2019 18:18:14 UTC-4, Bobbi wrote:
>> On Saturday, 24 August 2019 17:32:39 UTC-4, Bobbi wrote:
>>> On Saturday, 24 August 2019 08:51:18 UTC-4, Steven Hirsch wrote:
>>> On 8/24/19 2:35 AM, Bobbi wrote:
>>>> > I think it is a Microsoft CP/M 2.23 (with 63K TPA). I can download others
>>>> > from Asimov though ...
>>>> >
>>>> Never got CPAM working with this card.
>>>>
>>>> If CP/AM won't work there's probably something out of spec or misbehaving on
>>>> the card. I wrote the 5.x versions of CP/AM and there's nothing AE-specific
>>> about interface with hardware.
>>>
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>>
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Apple Parallel in Slot 1..
>>
>> I got DATASOFT CP/M 2.23B to boot (63K TPA). I had to make a new new floppy. It seems
my old CP/M boot floppy got chewed up somehow in the process of experimenting with this. Also
my Z80 card is a bit flakey. The breakthrough was when I touched it while it was plugged and and
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guess there is a dodgy joint on it somewhere. Anyhow ... working!!!!!
```

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>

> And CP/AM 5.1.1 is running too!! The copy I downloaded a while back must have been bad. I am wondering if the CP/AM support for the Sider drive could work with the MicroDrive/Turbo, but it is probably not worth the hassle..

You could always get a second CF card for the CP/M I keep meaning to get another card. I have a cable to jumper lead it outside the case, for quick swap. I was going to try a few hard drives too. But seeing as it ended up in the GS which came along afterwards it kind of went well onto the back burner. If I could afford another MDT I'd probably have go.. but my pockets aren't very deep :/

### Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Sun, 25 Aug 2019 02:08:18 GMT

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Originally posted by: Anthony Adverse

> Incidentally, my SPAOE Z80 Card looks identical in layout to the Pineapple one Anthony posted a pic of yesterday. Looks to be a complete clone of the real Softcard.

http://pineapple.zapto.org/hardware/display.php?query=193 The SPAOE card

http://pineapple.zapto.org/hardware/display.php?query=225 generic Soft Card clone

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Sun, 25 Aug 2019 02:16:31 GMT View Forum Message <> Reply to Message

Originally posted by: Bobbi

On Saturday, 24 August 2019 22:08:19 UTC-4, Anthony Adverse wrote:

>> Incidentally, my SPAOE Z80 Card looks identical in layout to the Pineapple one Anthony posted a pic of yesterday. Looks to be a complete clone of the real Softcard.

>>

- http://pineapple.zapto.org/hardware/display.php?query=193
- > The SPAOE card

- > http://pineapple.zapto.org/hardware/display.php?query=225
- > generic Soft Card clone

The picture of the SPAOE card matches mine exactly. It seems to be running CP/AM 5.1.1 without any trouble.

Interestingly the Applied Engineering PC.COM utility can see the four partitions I have on the MicroDrive, but I am not sure what I would have to do to actually use a partition with CP/M. The instructions in the manual are written for the Sider, and it is not too obvious how to adapt this, if it is even feasible.

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Steven Hirsch on Sun, 25 Aug 2019 14:31:09 GMT View Forum Message <> Reply to Message

On 8/24/19 5:32 PM, Bobbi wrote:

- > On Saturday, 24 August 2019 08:51:18 UTC-4, Steven Hirsch wrote:
- >> On 8/24/19 2:35 AM, Bobbi wrote:
- >>> I think it is a Microsoft CP/M 2.23 (with 63K TPA). I can download
- >>> others from Asimov though ...

>>>

>>> Never got CPAM working with this card.

>>> >>

- >> If CP/AM won't work there's probably something out of spec or misbehaving
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- >> AE-specific about interface with hardware.

>

- > I didn't persist for long with any of the images from Asimov, and it was a
- > few years ago, so I guess I will give it another whirl! Does CP/AM make
- > any assumptions about which slot the card is in?

>

No

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Steven Hirsch on Sun, 25 Aug 2019 14:32:51 GMT View Forum Message <> Reply to Message

On 8/24/19 6:18 PM, Bobbi wrote:

- > Success!! I managed to get CP/M booting with the Microdrive in slot 7. My
- > setup is Microdrive in slot 7, Dlsk II in slot 6, slot 5 is empty, slot 4
- > is the Z80 card. Also have a SSC in Slot 2 and Apple Parallel in Slot 1.

>

- > I got DATASOFT CP/M 2.23B to boot (63K TPA). I had to make a new new
- > floppy.

What is 'DATASOFT' CP/M? Is this a modified version of Microsoft 2.23? If so, where can I grab an image?

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Steven Hirsch on Sun, 25 Aug 2019 14:34:26 GMT View Forum Message <> Reply to Message

On 8/24/19 7:29 PM, Bobbi wrote:

>

- > And CP/AM 5.1.1 is running too!! The copy I downloaded a while back must
- > have been bad. I am wondering if the CP/AM support for the Sider drive
- > could work with the MicroDrive/Turbo, but it is probably not worth the
- > hassle.

Sider support was highly specific to the First Class Peripherals slot ROM and Sider partitioning scheme. I think the chances of this working are effectively zero.

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Steven Hirsch on Sun, 25 Aug 2019 14:37:20 GMT View Forum Message <> Reply to Message

#### On 8/24/19 10:16 PM, Bobbi wrote:

- > On Saturday, 24 August 2019 22:08:19 UTC-4, Anthony Adverse wrote:
- >>> Incidentally, my SPAOE Z80 Card looks identical in layout to the
- >>> Pineapple one Anthony posted a pic of yesterday. Looks to be a
- >>> complete clone of the real Softcard.

>>> >>

>> http://pineapple.zapto.org/hardware/display.php?query=193 The SPAOE card

>>

- >> http://pineapple.zapto.org/hardware/display.php?query=225 generic Soft
- >> Card clone

>

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- > CP/AM 5.1.1 without any trouble.

>

- > Interestingly the Applied Engineering PC.COM utility can see the four
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- > do to actually use a partition with CP/M. The instructions in the manual
- > are written for the Sider, and it is not too obvious how to adapt this, if
- > it is even feasible.

>

That's interesting. PC.COM was developed around a VERY early SmartPort specification and was intended to support the original Unidisk 3.5. I don't think there's any ability to adjust CP/M disk parameters to arbitrary volume sizes. The source code found its way into the world years ago, so perhaps someone will code support in for their own edification (won't be me, before you get your hopes up).

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Sun, 25 Aug 2019 17:31:23 GMT View Forum Message <> Reply to Message

Originally posted by: Bobbi

On Sunday, 25 August 2019 10:37:26 UTC-4, Steven Hirsch wrote:

- > On 8/24/19 10:16 PM, Bobbi wrote:
- >> On Saturday, 24 August 2019 22:08:19 UTC-4, Anthony Adverse wrote:
- >>>> Incidentally, my SPAOE Z80 Card looks identical in layout to the
- >>>> Pineapple one Anthony posted a pic of yesterday. Looks to be a
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>>>>

>>>

>>> http://pineapple.zapto.org/hardware/display.php?query=193 The SPAOE card

>>> http://pineapple.zapto.org/hardware/display.php?query=225 generic Soft

>>> Card clone

- >> The picture of the SPAOE card matches mine exactly. It seems to be running
- >> CP/AM 5.1.1 without any trouble.

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- >> partitions I have on the MicroDrive, but I am not sure what I would have to
- >> do to actually use a partition with CP/M. The instructions in the manual
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- > sizes. The source code found its way into the world years ago, so perhaps
- > someone will code support in for their own edification (won't be me, before
- > you get your hopes up).

Hi Steven -- Thanks for the info on the Sider support. I don't think I am going to try that. There are some DOS 3.3 files on side B of the CPAM diskette that are supposed to be run before PC.COM is run under CP/AM, but the manual doesn't really give much idea what this program actually does. At least part of it is in Applesoft, but I didn't work out much from quickly looking at it. It does a bunch of mysterious POKEs.

If someone was suitably motivated (not me either!) then it looks like there is some hope of getting something working, but I would be amazed if anything worked 'out of the box'.

The DATASOFT CP/M was a CPM-2.23 image I downloaded from Asimov. I don't really know anything about its origin, but it appears to be have all the same files as Microsoft Softcard CP/M 2.23 - MBASIC, GBASIC etc. I am not using it for any special reason, other than I downloaded it and it seems to work ok:)

Anyhow I am happy to have CP/M running again, and CP/AM seems to have some nice enhancements, so thank you for that!!

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Steven Hirsch on Mon, 26 Aug 2019 13:11:49 GMT

View Forum Message <> Reply to Message

On 8/25/19 1:31 PM, Bobbi wrote:

- > Hi Steven -- Thanks for the info on the Sider support. I don't think I am
- > going to try that. There are some DOS 3.3 files on side B of the CPAM
- > diskette that are supposed to be run before PC.COM is run under CP/AM, but
- > the manual doesn't really give much idea what this program actually does.
- > At least part of it is in Applesoft, but I didn't work out much from
- > quickly looking at it. It does a bunch of mysterious POKEs.

I don't recall having written a line of Applesoft BASIC code in my life, so no idea what that might be for, nor who developed it.

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Anonymous on Mon, 26 Aug 2019 14:29:03 GMT View Forum Message <> Reply to Message

Originally posted by: Anthony Adverse

On Monday, August 26, 2019 at 11:11:55 PM UTC+10, Steven Hirsch wrote:

> On 8/25/19 1:31 PM, Bobbi wrote:

>

- >> Hi Steven -- Thanks for the info on the Sider support. I don't think I am
- >> going to try that. There are some DOS 3.3 files on side B of the CPAM
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- > idea what that might be for, nor who developed it.

yer edjumacations bin neglected there...

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Steven Hirsch on Mon, 26 Aug 2019 15:51:15 GMT

View Forum Message <> Reply to Message

On 8/26/19 10:29 AM, Anthony Adverse wrote:

- > On Monday, August 26, 2019 at 11:11:55 PM UTC+10, Steven Hirsch wrote:
- >> On 8/25/19 1:31 PM, Bobbi wrote:

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  >>
  >> I don't recall having written a line of Applesoft BASIC code in my life, so no
  >> idea what that might be for, nor who developed it.
  > yer edjumacations bin neglected there...
- I always felt like something was missing from my life... Perhaps that's it? :-)

Subject: Re: MicroDrive/Turbo and Z80 CP/M card Posted by Michael J. Mahon on Sat, 31 Aug 2019 18:51:22 GMT View Forum Message <> Reply to Message

```
Steven Hirsch <snhirsch@gmail.com> wrote:
> On 8/26/19 10:29 AM, Anthony Adverse wrote:
>> On Monday, August 26, 2019 at 11:11:55 PM UTC+10, Steven Hirsch wrote:
>>> On 8/25/19 1:31 PM, Bobbi wrote:
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>>> idea what that might be for, nor who developed it.
>>
>> yer edjumacations bin neglected there...
>>
> I always felt like something was missing from my life... Perhaps that's it? :-)
It _is_ a remarkable experience to switch on a computer and immediately
type in a program and run it—no OS, no problem!
-michael - NadaNet 3.1 and AppleCrate II: http://michaeljmahon.com
```