C= FORUM

sd2iec 0.9.1

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Author	Message

Unseen
Groupie in Training

Joined: 26 Feb 2008
Posts: 141

Posted: Mon Mar 08, 2010 4:52 pm   Post subject: sd2iec 0.9.1   quote

sd2iec 0.9.1 - just a bugfix release:

- Another REL bug removed
- case-insensitive matching on FAT works again (also fixes swap list problems)
- raw directory mode was broken on D64/D71/D81
- preliminary support for the ATmega1284P (only relevant for people who build the device themselves - the chips are still hard to get though and the bootloader hasn't been ported yet)

Binaries and source code are available at http://www.sd2iec.de as usual

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hurminator
Master of C64

Joined: 03 Feb 2004
Age: 38
Posts: 1187
Location: Columbus, Ohio

Posted: Mon Mar 08, 2010 5:04 pm   Post subject: quote

Does this support CMD native mode partitions yet?

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Unseen
Groupie in Training

Joined: 26 Feb 2008
Posts: 141

Posted: Mon Mar 08, 2010 5:16 pm   Post subject: quote

hurminator wrote:
> Does this support CMD native mode partitions yet?

Yes, sd2iec supports DNP files since release 0.9.0.

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hurminator

Posted: Mon Mar 08, 2010 6:00 pm   Post subject: quote

hurminator
Master of C64

Joined: 03 Feb 2004
Age: 38
Posts: 1187
Location: Columbus, Ohio

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Posted: Mon Mar 08, 2010 6:09 pm   Post subject: quote

> **Unseen wrote:**
>
> > **hurminator wrote:**
> >
> > > Does this support CMD native mode partitions yet?
> >
> > Yes, sd2iec supports DNP files since release 0.9.0.

Excellent news! Thanks 😃

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tng1701e
Newbie

Joined: 15 Feb 2010
Age: 42
Posts: 37
Location: Littlehampton,
England

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Posted: Thu Mar 11, 2010 7:52 am   Post subject: quote

Hiya guys.. Noobie question i know but what file/s do i need to copy to my SD card to update the firmware?

sd2iec-0.9.1-larsp-m644p.bin
sd2iec-0.9.1-larsp-m1284p.bin
sd2iec-0.9.1-sw1-m644p.bin
sd2iec-0.9.1-sw1-m1284p.bin
sd2iec-0.9.1-sw2-m644p.bin
sd2iec-0.9.1-sw2-m1284p.bin
sd2iec-0.9.1-uIEC3-m1281.bin
sd2iec-0.9.1-uIEC-m1281.bin

Thanks 😃

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al_anger
Groupie in Training

Joined: 19 May 2005
Age: 58
Posts: 54
Location: Fairfield Iowa

Posted: Thu Mar 11, 2010 12:30 pm   Post subject: quote

> **tng1701e wrote:**
>
> Hiya guys.. Noobie question i know but what file/s do i need to copy to my SD card to update the firmware?

You didn't say what hardware you are updating. uIEC uses the sd2iec firmware, customized for the specific hardware configuration of the uIEC. There are other sd2iec target hardware platforms, each platform needs a specific build of the firmware.

Ingo has made it easier now. Just download sd2iec-0.9.0-binaries.zip and unzip to the root of your CF or SD card. The bootloader will pick the correct file for you.

Some resources for you:
µIEC Wiki
sd2iec Readme
C64-Wiki sd2iec page
Mailing list with archives: µIEC Users Discussion Group

al
_____
truly dangerous with a screwdriver
http://alanger.net

Last edited by al_anger on Thu Mar 11, 2010 12:55 pm; edited 4 times in total

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tng1701e
Newbie

Joined: 15 Feb 2010
Age: 42
Posts: 37
Location: Littlehampton,
England

□ Posted: Thu Mar 11, 2010 12:31 pm   Post subject: [quote]

Thanks for you reply 😃

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hurminator
Master of C64

Joined: 03 Feb 2004
Age: 38
Posts: 1187
Location: Columbus, Ohio

□ Posted: Wed Mar 17, 2010 5:12 pm   Post subject: [quote]

> **hurminator wrote:**
>> **Unseen wrote:**
>>> **hurminator wrote:**
>>> Does this support CMD native mode partitions yet?
>>
>> Yes, sd2iec supports DNP files since release 0.9.0.
>
> Excellent news! Thanks 😃

Just thinking about this some more before getting one... What do you mean by support? Are you able to create native mode partitions or just use ones already made? Can I use CMD HD tools to make a partition like I would on a hard drive? Thanks.

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gklinger
Immortal Grandmaster of
C64

Joined: 06 Dec 2004
Age: 40
Posts: 5799
Location: Toronto, CANADA

□ Posted: Wed Mar 17, 2010 5:37 pm   Post subject: [quote]

I too am curious about the CMD support. A device usings Unseen's wicked firmware would be ideal for running a BBS...
_____
Here's to feeling good all the time.

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[profile] [pm] [www]

Unseen
Groupie in Training

Joined: 26 Feb 2008
Posts: 141

□ Posted: Wed Mar 17, 2010 7:38 pm   Post subject: [quote]

> **hurminator wrote:**
> Just thinking about this some more before getting one... What do you mean by support?

You can CD into a DNP file, the same way you could CD into a D64/D71/D81 in warlier releases.

> **Quote:**
> Are you able to create native mode partitions or just use ones already made?

I guess you don't know how sd2iec presents the storage medium, let me try to explain...

> **Quote:**
> Can I use CMD HD tools to make a partition like I would on a hard drive?

The CMD HD tools will not work.

The basic concept of sd2iec is to present you the contents of a storage medium (SD/CF/IDE, depending on the hardware) that has at least one FAT12/16/32 partition. If you have more than one partition on that medium and/or multiple media connected at the same time (i.e. if you have an uIEC/CF with a CF card and an IDE drive or two IDE drives) all of those will show up as separate partitions, accessed similiarly to partitions on the CMD drives (i.e. first FAT partition is "drive" 1 and you can choose which partition "drive" 0 refers to with G-P).

Within such a partition some special files (D64/D71/D81/DNP/M2I) can be changed into with CD as if they were a subdirectory[1] and you'll see the contents of that disk image instead until you leave it again with CD<- (CD// doesn't work to stop certain programs from leaving something that they don't know how to return into). With DNP files you'll have full access to their subdirectories while you've "changed into" the file.

I'm not sure what your use case for multiple "native" partitions is, if it's just as an additional level of organisation you may be able to to that just with subdirectories - sd2iec does not impose any limit on the number of nested subdirectories. I assume the two main reasons why CMD opted for a partitioning model on their drives were that partitions with the same geometry as existing drives increased compatibility (still possible with sd2iec, just use a D64/D71/D81 file) and it allowed them to use the full capacity of the drive without using completely separated code paths for the native partitions (their structure is very similiar to the floppy-compatible ones). Using FAT as the base file system for everything else in sd2iec allows for much easier file exchange with a PC and removes most drive size issues (in theory a 2TB drive should work), reducing the need for additional partitioning schemes.

I know that someone patched sd2iec so you could assign a D64/D71/D81/DNP file to a partition number instead of using it as a subdirectory, but unfortunately that person has not submitted the changes for inclusion in the reguar releases.

[1] Works for CD only, i.e. something like LOAD"//disk.d64/:program.prg" does not work because limiting it to CD was way easier to implement - the "native FAT file" vs. "file in a disk image" information can be stored per partition in that case instead of per open file. The plan is to remove that limitation some day, but with the current release schedule that might take a while.

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brain
Über Groupie   Posted: Wed Mar 17, 2010 9:11 pm   Post subject: [quote]

Joined: 20 Jun 2004
Posts: 354

> **Unseen wrote:**
>
> I know that someone patched sd2iec so you could assign a D64/D71/D81/DNP file to a partition number instead of using it as a subdirectory, but unfortunately that person has not submitted the changes for inclusion in the reguar releases.

The person is Bo Zimmerman, who sent the initial DNP mods (I'm not sure if you used his mods or re-implemented, as the changelog doesn;t credit him anywhere). Anyway, I believe his "partition-mount" was in one of the versions I sent, but we were concentrating on DNP support. I recently asked him if he could re-implement those mods (auto-config and mount-image into the newest 0.9.1. It should be done soon.

I think CMD offered partitions because many programs would allow a "unit number" (most applications offered 0: and 1: because of the Save with replace bug and for MSD drive usage. CMD could piggyback on that without affecting applications. It was also a way to offer direct sector access (you can't do B-* commands at anything other than a "drive unit" level).

Jim

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Unseen
Groupie in Training

Joined: 26 Feb 2008
Posts: 141

Posted: Wed Mar 17, 2010 9:38 pm   Post subject: [quote]

> **brain wrote:**
>
> The person is Bo Zimmerman, who sent the initial DNP mods (I'm not sure if you used his mods or re-implemented, as the changelog doesn;t credit him anywhere).

The current implementation is completely original code from me, based on CMD documentation and a few DNP files with no reference to the patch I received because IIRC that patch was said to be just a preliminary one for comment, not for merging. I haven't received any other patches than that one.

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hurminator
Master of C64

Joined: 03 Feb 2004
Age: 38
Posts: 1187
Location: Columbus, Ohio

Posted: Thu Mar 18, 2010 2:22 am   Post subject: [quote]

@ Unseen:

Thank you for the great explanation. If I understand correctly, you format your SD card (or whatever) with windows FAT and then use windows folders as your partition/subdirectories. You just drop .prg files into those folders and list the directory like you would on a CMD HD. Is that correct? Also sounds like more functional support is coming so that will be very exciting. I would love to be able to use MCOPY to backup my current HD onto this device and archive the files on my PC.

And as Golan suggested, it would be a great way to run a BBS from with all that disk space.

Keep up the good work guys!

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brain
Über Groupie

Posted: Thu Mar 18, 2010 2:47 am   Post subject: [quote]

hurminator wrote:

Joined: 20 Jun 2004
Posts: 354

nurminator wrote:

> Is that correct?

Correct.

Quote:

> And as Golan suggested, it would be a great way to run a BBS from with all that disk space.

A number of folks currently run BBS systems off sd2iec.

Jim

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