

Wednesday, January 6, 2010

### **Nice addition for my file server**

I found an interesting way to mount more drives into my fileserver in the comments of an article about his new fileserver in Kris Koehntopps blog: The Raidsonic ICY Dock MB-455SPF. It's a nice way to mount 5 disks into 3 5,25 inch bays. Given that i'm using an Sharkoon Rebel12 it would be easy to use 3 of them (thus having 15 disks plus 6 in the internal 3,5 inch bays) and still having room for two optical drives.

Posted by Joerg Moellenkamp at 10:48

Hi!

as you might already know, you can increase your storage density by spending some more bucks and buying this one: [http://www.raidsonic.de/de/pages/products/backplanes.php?we\\_objectID=4249](http://www.raidsonic.de/de/pages/products/backplanes.php?we_objectID=4249)

Well, the fan is too noisy when you plan to operate this in your living room or office. But in a 19" Rack in the basement it works perfect

Bye  
Rainer

Anonymous on Jan 6 2010, 14:35

Sorry ... but i've linked to the raidsonic gear

Anonymous on Jan 6 2010, 14:37

\*Autsch\*

Sorry, I should follow your links instead of taking Kris picture of the Cooler Master Stacker in mind (with only the capacity of 4 drives) and posting the same stuff again. Shame on me :-/

Anonymous on Jan 6 2010, 14:41

Doing some math gives the result: you can put 21 hard disks (sata) in your tower. But how to use them? Regular boards have only 4 to 6 sata ports. and i haven't found any information on sata controllers working for opensolaris.

Anonymous on Jan 6 2010, 16:05

port multiplier?

Anonymous on Jan 6 2010, 17:14

Whats that? Never heard of them.

How do they work and whats about performance?

Anonymous on Jan 6 2010, 17:24

The LSI SAS controllers are really useful for connecting up lots of SATA and SAS drives, and Solaris/OpenSolaris drivers are available, since some of their controllers are resold by Sun.

Anonymous on Jan 6 2010, 19:42

With a port multiplier you can connect more than a single device to a SATA host port. Think of it as a switch for SATA. There are some constraints:

- the bandwidth is shared (for SOHO use not a problem)
- the SATA controller has to support it (albeit there are work arounds, but most current controllers work AFAIK anyway)
- the OS has to support it (osol does since last year)

Anonymous on Jan 7 2010, 05:41

Non-raid Cards with the 1068 from LSI should do the trick, as they use the mpt driver in Solaris.

Anonymous on Jan 7 2010, 05:50

For further information - ask Dr. Google: [http://www.sata-io.org/technology/port\\_multipliers.asp](http://www.sata-io.org/technology/port_multipliers.asp)

Anonymous on Jan 7 2010, 08:09

there are two 5,25 inch bays and also a 3,5 inch external bay left, so use them with a Icy-Dock MB-453SPF

[http://www.raidsonic.de/de/pages/products/backplanes.php?we\\_objectID=4244](http://www.raidsonic.de/de/pages/products/backplanes.php?we_objectID=4244)

## Blog Export: c0t0d0s0.org, <http://www.c0t0d0s0.org/>

and an single HD. So you can put 25 hard disks in that tower.

A real monster

Anonymous on Jan 7 2010, 08:38

Okay .... half a thumper

Anonymous on Jan 7 2010, 08:45

Why not use 2.5 inch drives (I do BTW) :

"Fifty 200GB Fujitsu Drives in a Standard Tower"

<http://www.dailytech.com/article.aspx?newsid=2765>

(Purav Sanghani - June 11, 2006 8:11 PM)

"At Computex Taipei, DailyTech got a nice shot of a standard PC tower with fifty Fujitsu 200GB 2.5" drives in a RAID configuration. The total storage of the array is 10TB, but 2TB are lost to parity for the array."

Anonymous on Jan 12 2010, 20:59

A really cool tray for such disks but i think you get more capacity for the same amount of \$ with 3,5 disks.

Anonymous on Jan 12 2010, 21:20

Of course, about 2 times more. But prices have come down so much for 3.5 that I don't trust mainstream HD any more. Noise is an issue also, as is power consumption. And last but certainly not least : for the "Blinkenlights"!

[http://de.wikipedia.org/wiki/Blinkenlights\\_%28Jargon%29](http://de.wikipedia.org/wiki/Blinkenlights_%28Jargon%29)

Anonymous on Jan 12 2010, 22:09

I'm not sure, that the margin pressure in 2.5" yields any better quality on average than in 3,5". Are the 2.5" of significantly better quality.

Of course the blinkenlights effect is much more impressive with more disks

The QuadraPack Q14 isn't that expensive:\$99 dollars but i didn't found a dealer in qermany so far.

Anonymous on Jan 13 2010, 05:41

\$99 is cheap for a Q14. EnhanceTech has an updated model X14. But it costs :

[http://www.webconnexion.com/raid/product\\_info.php?products\\_id=1043&osCsid=2f05878d82b37af82762282be440dd71](http://www.webconnexion.com/raid/product_info.php?products_id=1043&osCsid=2f05878d82b37af82762282be440dd71)

Much cheaper is the Addonics AE4RCS25NSA [http://www.webconnexion.com/raid/product\\_info.php?cPath=63&products\\_id=652](http://www.webconnexion.com/raid/product_info.php?cPath=63&products_id=652) but the trays are a bit fragile. I am using 2 of those in a SilverStone SG01, mobo DFI 855GME-MGF Pentium M 2.0GHz 2GB ECC RAM, Hitachi 250GB 7.2Krpm drives. Running OpenSolaris 2009.06 on it, of course

Anonymous on Jan 13 2010, 06:17