



?:OSSLab thx 2005 ,2010 ??

?:

2003 ??,?????????????..???2.5 IDE ?????????5.25 box?.??raid 0 ,1

???2.5 IDE??????,???4200?? ???????.

??????????????.

?????????????Raid Storage ??????5.25 ???????..

?????????3.5 Raid ????? ,???????????????????? ?????....

?????.??? 2.5 ??????????.

??soc ,?????,motor ???? ?HDA, ?PCB..???????

Seagate ?2003 ??? .SFF Committee?Small Form Factor Committee ??????? ?

???SFF-8221?????

?????????? 3.5 ??????, ??????????linear velocity??? 2.5" ??? ???? ??????????2.5 ???

??? ???3.5 ?? ???????3.5?.

????? ?????????? 3.5 ??????????



?Cheetah X15/X15-36LP 15000 ???? ???????3 ????

3.5 ?????????? ?????? ??

5400 7200 rpm 3.5

10000 rpm 3

15000 rpm 2.75,3

?? ???? ????????

??????????

?????????=1/2 * M * R(??) ??* ??? ??

1997 segate Cheetah 9 ?8 ?3.5?? ???10000 rpm hd

????????? ???????3.5 IDE 5400 rpm 4?...

?? ?? ?? ?????????????.

?? ??? cheetah 18 ??3 ??? ??????.. ???????

?????????? ?linear velocity?

??Server ??? ?????????disk I/O ?????????????

????????????(???Seek time)????????????????????Latency time ?

??????????

????? ??????, ???????????.

???? ????10000 rpm ?15000 rpm ?????????motor

??????2.5 ??????..

??3.5 ? 8?? 4??

?? ????????????? HD?????.????12mm .12MM ??????.

2.5 ? ,??? 10000 rpm ???? ?????15000 rpm

????.. ??3.5????10000 rpm ????+????=????..????????..

????????? ,server ??????????...

??????

2.5 73GB (SFF) ?????? 3.5 73GB (LFF) ??,?HP x86 ??Server?????.????SFF ??.

?????? ??????????. <http://www.tomshardware.com/storage/20040929/>