

ExtremeStor-iNAS ttcp Benchmark

(1Gbps~10Gbps)

1. System Configuration

ITEM	Contents
Chassis	Intel 2U SR2400(Using Intel PCI-X Riser Card)
Mainboard	Intel SE7520JR2
OS	Linux Kernel 2.6 (Fedora Core 4)
CPU	Dual Xeon3.0
Mem	1Gbytes
DISK	
RAID Type	
RAID Config	
Stripe Size	
Filesystem	
Network	1Gbps~ 10Gbps (Remote Cross Cable) - Server(Intel SE7501hg2-1024MB)
BMT TOOL	ttcp
TEST Position	Network TCP/UDP Packet Send/Recv
BMT I/O Unit	8192 size
Last Update	05/17/2006 10:45:01

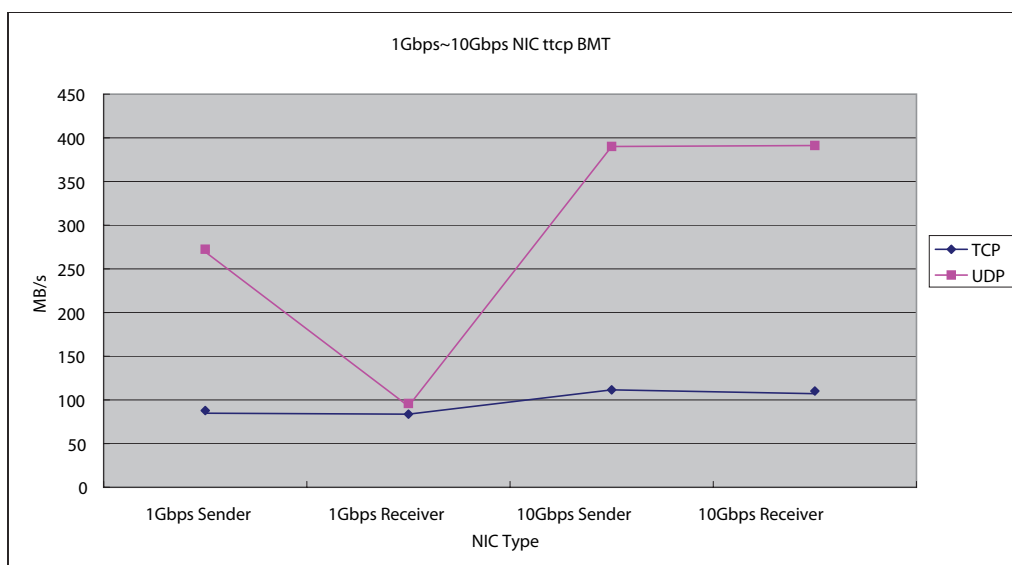
1Gbps/10Gbps I/O Performace with ttcp

	Total Throughput				
	1Gbps Sender	1Gbps Receiver	10Gbps Sender	10Gbps Receiver	
TCP	84.71	83.73	111.52	107.21	
UDP	269.34	92.82	390.05	391.25	

1Gbps : Intel NIC

10Gbps : Chelsio 10GbE NIC

2. Total Report



3. Data

[10Gbps Chelsio NIC]

[TCP]

```
[root@Receiver ~]# ttcp -r
ttcp-r: buflen=8192, nbuf=2048, align=16384/0, port=5001 tcp
ttcp-r: socket
ttcp-r: accept from 192.168.1.1
ttcp-r: 16777216 bytes in 0.15 real seconds = 109787.31 KB/sec +++ (107.21MB/s)
ttcp-r: 3741 I/O calls, msec/call = 0.04, calls/sec = 25068.01
ttcp-r: 0.0user 0.0sys 0:00real 28% 0i+0d 0maxrss 0+3pf 1870+0csw
```

[TCP]

```
[root@Sender ~]# ttcp -t 192.168.1.7
ttcp-t: buflen=8192, nbuf=2048, align=16384/0, port=5001 tcp -> 192.168.1.7
ttcp-t: socket
ttcp-t: nodelay
ttcp-t: connect
ttcp-t: 16777216 bytes in 0.14 real seconds = 114198.89 KB/sec +++ (111.52MB/s)
ttcp-t: 2048 I/O calls, msec/call = 0.07, calls/sec = 14274.86
ttcp-t: 0.0user 0.0sys 0:00real 14% 0i+0d 0maxrss 0+3pf 39+1csw
```

[UDP]

```
[root@Receiver ~]# ttcp -r -u
ttcp-r: buflen=8192, nbuf=2048, align=16384/0, port=5001 udp
ttcp-r: socket
ttcp-r: 16777216 bytes in 0.04 real seconds = 400645.57 KB/sec +++ (391.25MB/s)
ttcp-r: 2050 I/O calls, msec/call = 0.02, calls/sec = 50129.60
ttcp-r: 0.0user 0.0sys 0:00real 50% 0i+0d 0maxrss 0+1pf 216+0csw
```

[UDP]

```
[root@Sender ~]# ttcp -t -u 192.168.1.7
ttcp-t: buflen=8192, nbuf=2048, align=16384/0, port=5001 udp -> 192.168.1.7
ttcp-t: socket
ttcp-t: 16777216 bytes in 0.04 real seconds = 399414.92 KB/sec +++ (390.05MB/s)
ttcp-t: 2054 I/O calls, msec/call = 0.02, calls/sec = 50073.14
ttcp-t: 0.0user 0.0sys 0:00real 100% 0i+0d 0maxrss 0+4pf 0+0csw
```

[1Gbps NIC]

[TCP]

```
[root@Receiver ~]# ttcp -r
ttcp-r: buflen=8192, nbuf=2048, align=16384/0, port=5001 tcp
ttcp-r: socket
ttcp-r: accept from 1.2.3.5
ttcp-r: 16777216 bytes in 0.19 real seconds = 85741.95 KB/sec + ++ (83.73MB/s)
ttcp-r: 2760 I/O calls, msec/call = 0.07, calls/sec = 14443.83
ttcp-r: 0.0user 0.0sys 0:00real 31% 0i+0d 0maxrss 0+3pf 1514+0csw sw
```

[TCP]

```
[root@Sender ~]# ttcp -t 1.2.3.3
ttcp-t: buflen=8192, nbuf=2048, align=16384/0, port=5001 tcp -> 1.2.3.3
ttcp-t: socket
ttcp-t: nodelay
ttcp-t: connect
ttcp-t: 16777216 bytes in 0.19 real seconds = 86750.25 KB/sec + ++ (84.71MB/s)
ttcp-t: 2048 I/O calls, msec/call = 0.09, calls/sec = 10843.78
ttcp-t: 0.0user 0.0sys 0:00real 11% 0i+0d 0maxrss 0+3pf 164+0csw w
```

[UDP]

```
[root@Receiver ~]# ttcp -r -u
ttcp-r: buflen=8192, nbuf=2048, align=16384/0, port=5001 udp
ttcp-r: socket
ttcp-r: 7159808 bytes in 0.07 real seconds = 95051.66 KB/sec ++ + (92.82MB/s)
ttcp-r: 876 I/O calls, msec/call = 0.09, calls/sec = 11908.65
ttcp-r: 0.0user 0.0sys 0:00real 0% 0i+0d 0maxrss 0+1pf 454+0csw
```

[UDP]

```
[root@Sender ~]# ttcp -t -u 1.2.3.3
ttcp-t: buflen=8192, nbuf=2048, align=16384/0, port=5001 udp -> 1.2.3.3
ttcp-t: socket
ttcp-t: 16777216 bytes in 0.06 real seconds = 275806.34 KB/sec +++ (269.34MB/s)
ttcp-t: 2054 I/O calls, msec/call = 0.03, calls/sec = 34576.80
ttcp-t: 0.0user 0.0sys 0:00real 100% 0i+0d 0maxrss 0+4pf 0+0csw
```



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