SoftiWARP

These instructions allow to install SoftiWARP and to configure RDMA driver over Ethernet without requiring any RDMA hardware.

(1) OFED 3.12 on RHEL 6.5 with kernel
2.6.32-431.el6.x86_64

was successful.

Sample programs
https://github.com/tarickb/the-geek-in-the-corner

SoftiWARP
https://www.gitorious.org/softiwarp

SoftiWARP setup instructions
http://www.reflectionsofthevoid.com/2011/03/how-to-install-soft-iwarp-on-ubuntu.html

Instructions

yum install rpm-build libtool zlib-devel libstdc++-devel gcc-c++ redhat-rpm-config bison flex tcl tk glib2-devel tcl-devel git

yum install "kernel-devel-uname-r == $(uname -r)"

wget http://downloads.openfabrics.org/downloads/OFED/ofed-3.12/OFED-3.12.tgz

git clone https://gitorious.org/softiwarp/kernel.git
git clone https://gitorious.org/softiwarp/userlib.git

In softiwarp/kernel/
siw_main.c - only this line is uncommented in ifdef

```
//#if LINUX_VERSION_CODE > KERNEL_VERSION(2, 6, 34)
        rv = ib_register_device(ofa_dev, NULL);
//#else
//      rv = ib_register_device(ofa_dev);
//#endif
```

Then follow the instructions on this page.

http://www.reflectionsofthevoid.com/2011/03/how-to-install-soft-iwarp-on-ubuntu.html

If you receive an error in installing softiwarp kernel module, please make a copy of the inifiniband drivers in kernel update directory and them remove them. Be sure to reboot the machine and then follow the instructions in the link above.

```
# cd /root
# mkdir /root/backup
# mkdir /root/backup/lib/modules/2.6.32-431.el6.x86_64/updates/drivers/infiniband/
# cp -r /lib/modules/2.6.32-431.el6.x86_64/updates/drivers/infiniband/*
/root/backup/lib/modules/2.6.32-431.el6.x86_64/updates/drivers/infiniband/
# rm -rf /lib/modules/2.6.32-431.el6.x86_64/updates/drivers/infiniband/*
```

Then do:
```
# depmod
```

This server client works in the following link.
https://github.com/tarickb/the-geek-in-the-corner

Starting server on rdma-rhel2 machine (note the 2 at the end of rdma-rhel)

```
[root@rdma-rhel2 rdma-file-transfer]# ucmatose -p 10000 -C 1000 -S 1400
cmatose: starting server
initiating data transfers
completing sends
receiving data transfers
data transfers complete
cmatose: disconnecting
disconnected
test complete
return status 0
```

Starting client on rdma-rhel machine
```
[root@rdma-rhel rdma-file-transfer]# ucmatose -s 9.47.240.217 -p 10000 -C 1000 -S 1400
cmatose: starting client
cmatose: connecting
receiving data transfers
sending replies
data transfers complete
test complete
return status 0
```