

# Third Party Software: How can I build Lustre RPMs for the Mellanox OFED?

You will need to download the Lustre source RPM from:

<https://downloads.hpdd.intel.com/public/lustre/lustre-2.9.0/el7/client/>

Replace 2.9.0 with the desired version

The SRPM can be installed on a node that is running the correct kernel version and Mellanox OFED version:

```
rpm -Uvh lustre-2.9.0-1.src.rpm
```

After installing the SRPM package you will need to edit the SPEC file:

```
cd /usr/src/redhat/SPECvim lustre.spec  
and append the following to the configure line:
```

```
--with-o2ib=/usr/src/ofa_kernel/default
```

If you do not add that line it will use the Linux distribution's bundled OFED and if the Mellanox OFED is installed the Lustre module will fail to work due to incompatible symbol versions.

If you want to compile for very OLD kernels e.g. RHEL5 :

```
EXTRA_LNET_INCLUDE="-I/usr/src/ofa_kernel/default/include/ -include /usr/src/  
ofa_kernel/default/include/linux/compat-2.6.h" ./configure --with-o2ib=/usr/src/  
ofa_kernel/default/
```

To build the RPMs run:

```
rpmbuild -ba --without servers lustre.spec
```

The RPM files will be saved in /usr/src/redhat/RPMS/x86\_64

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