

???embedded system ?????IPKG

Optware ??? advanced package manager , ????? Embedded system ????????

[http://www.webos-internals.org/wiki/...p\\_optware\\_feed](http://www.webos-internals.org/wiki/...p_optware_feed)

?? optware?

????

1. ???????/home/share/  
 ??????[http://ipkg.nslu2-linux.org/feeds/op...163-10\\_arm.ipk](http://ipkg.nslu2-linux.org/feeds/op...163-10_arm.ipk)
2. ??/home/share ????? ? /opt  
 mkdir /opt  
 mount -o bind /home/share /opt
3. ????? ipkg-opt  
 tar -xOvzf ipkg-opt\_0.99.163-10\_arm.ipk ./data.tar.gz | tar -C / -xvzf -
4. ?vi ?? /opt/etc/ipkg.conf  
 vi /opt/etc/ipkg.conf  
 ??ins ??  
 src cs05q3armel <http://ipkg.nslu2-linux.org/feeds/optware/cs05q3armel/cross/stable>  
 ?ESC? ?? : ?? : , ?? wq (????????????vi )

NOTE: ??Soc ??? dns323 ?????????? <http://ipkg.nslu2-linux.org/feeds/op...cross/unstable>  
<http://ipkg.nslu2-linux.org/feeds/optware/> ??feed ??????????...

5. ??  
 export PATH=\$PATH:/opt/bin  
 ipkg update  
 ipkg list

```

#
# uname -a
Linux 4Bay-NAS 2.6.12.6-arm1 #1 Tue Dec 18 15:18:13 CST 2007 armv5tej1 unknown
# ipkg -v
ipkg version 0.99.163
# mount
/proc on /proc type proc (rw)
/proc/bus/usb on /proc/bus/usb type usbfs (rw)
/dev/pts on /dev/pts type devpts (rw)
/dev/ram1 on /home type ext3 (rw)
/dev/sdal on /mnt/sdal type ext2 (rw)
/mnt/sdal/opt on /opt type ext3 (rw)
# df -h
Filesystem      Size      Used Available Use% Mounted on
/dev/ram1       19.4M      1.0M      18.4M    5% /home
/dev/sdal       9.4G      45.7M      8.9G    1% /mnt/sdal
/mnt/sdal/opt   9.4G      45.7M      8.9G    1% /opt
#

```

ipkg ???

ipkg ? ipkg-opt

????

ipkg install <package>

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

ipkg list

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

ipkg list\_installed

## FAQ

Q: ?? error while loading shared libraries: librt.so.1: cannot open shared object file: No such file or directory  
Ans?

```

cd /opt/lib
tar xzf /home/usbdisk1-1/librt-so.tgz
ln -s librt-0.9.28.so librt.so.1

```

Q: error while loading shared libraries: libc.so.0: cannot open shared object file: No such file or directory  
Ans?

```

cd /lib
ln -s libc-2.3.4.so libc.so.0

```

Q: ?????? ext2 file system

Ans??????

```
#fdisk /dev/sda
```

```
>d ?? partition
```

```
>n ?? partition
```

```
>w ????
```

```
#mke2fs /dev/sda1
```

```
#mkdir /mnt/sda1
```

```
#mount -t ext2 /dev/sda1 /mnt/sda1
```

```
#mkdir /mnt/sda1/opt
```

```
#mkdir /opt
```

```
#mount -o bind /mnt/sda1/opt /opt
```