

Extracting firmware

The tool for extracting iPod firmware is called `extract2g`. `Extract2g` can be found on the `freemyipod` SVN at <http://svn.freemyipod.org/tools/extract2g/>. The Windows and the Linux versions can be built with a simple `make` command. `Extract2g` supports all of the Nanos and the 5G and 6G iPods (haven't tested any others). If the output says something similar to "Extracting from `osos.fw`," you should be fine.

To obtain a list of available files, type in:

```
extract2g -l dump.img
```

Please note that "`dump.img`" can be replaced with whatever your dump file is named. To actually extract the firmwares, type in:

```
extract2g -A dump.img
```

You should now have 3 files:

- `osos.fw`
- `aupd.fw`
- `rsrc.fw`

On Nano 4G, you should use the `-4` or `--4g-compat` option in order to dump the correct data from the firmware. This option is considered as a workaround, because the Nano 4G firmwares are detected as Nano 3G's, but the offset is different.

To list the files, type in:

```
extract2g -l -4 dump.img
```

To extract all files, type in:

```
extract2g -A -4 dump.img
```

You should now have 9 files:

- `appl.fw`
- `bdhw.fw`
- `bdsf.fw`
- `chrg.fw`
- `diag.fw`
- `disk.fw`
- `lbat.fw`
- `osos.fw`
- `rsrc.fw`

These are your extracted firmware images. To learn more about these, please visit the [Firmware](#) page. If you need more information about using `extract2g`, type in:

```
extract2g - -help
```

Removing header

Also if you are using the osos.fw outputted by extract2g in emCORE you need to remove the 2 KiB header from it:

```
dd if=osos.fw of=osos.out bs=2048 skip=1
```

Or alternatively, under Windows open osos.fw in HxD and select 'select block' from the edit menu, select from 0x0 to 0x7FF, then delete this region and save.

Then put osos.out into /.boot/AppleOS.bin

Helpful pages

http://home.gna.org/linux4nano/download/crypto_synth-1.0.pdf

<http://www.ipodlinux.org/wiki/Firmware>

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