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5.1/7.1 multichannel audio using VoodooHDA

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5.1/7.1 multichannel audio using VoodooHDA

» by [Cassio](#) » 25 Oct 2011, 15:38

In order to have multichannel audio in Mac OS we just have to open **Applications - Utilities - Audio MIDI Setup** and create an **aggregate device** with 3 (5.1) or 4 outputs (7.1)

The problem is that on most codecs VoodooHDA enables only one output. It happens because the codec has more than one node with the same **Default Association**, only **Sequence** changes.

To get a dump of your codec use the **getDump** command (get it in [VoodooHDA official thread](#)).

Example:

Code: [Select all](#)

```
nid 17 0x02214030 as 3 seq 0 Headphones Jack jack 1 loc 2 color
nid 18 0x01014010 as 1 seq 0 Line-out Jack jack 1 loc 1 color
nid 19 0x511711f0 as 15 seq 0 Speaker None jack 7 loc 17 color
nid 20 0x02a1902e as 2 seq 14 Microphone Jack jack 1 loc 2 color
nid 21 0x01813021 as 2 seq 1 Line-in Jack jack 1 loc 1 color
nid 22 0x01011012 as 1 seq 2 Line-out Jack jack 1 loc 1 color
nid 23 0x01a19020 as 2 seq 0 Microphone Jack jack 1 loc 1 color
nid 24 0x99331122 as 2 seq 2 CD Fixed jack 3 loc 25 color
nid 27 0x0145f1a0 as 10 seq 0 SPDIF-out Jack jack 5 loc 1 color
nid 28 0x41c5f160 as 6 seq 0 SPDIF-in None jack 5 loc 1 color
nid 36 0x01016011 as 1 seq 1 Line-out Jack jack 1 loc 1 color
nid 37 0x01012014 as 1 seq 4 Line-out Jack jack 1 loc 1 color
```

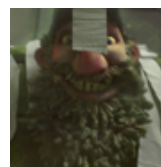
PinDefault is composed of 8 hex chars

Code: [Select all](#)

```
0x01011012
| | | | | | | +- Sequence
| | | | | | | +- Default Association
| | | | | | | --- Misc
| | | | | | | ---- Color
| | | | | | | ----- Connection Type
```

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[Cassio](#)

Senior

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Joined: 26 Aug 2011,
23:53

```

||+----- Default Device
|+----- Location
+----- Port Connectivity

```

More info [viewtopic.php?f=18&t=454](http://olarila.com/forum/viewtopic.php?f=18&t=454)

Apple doesn't use multichannel analog output, so we need to use a different Default Association for each line-out (use the first available value). Sequence is always zero.

To change these values we include **NodesToPatch** in VoodooHDA Info.plist file, for example:

Code: [Select all](#)

```

<key>NodesToPatch</key>
<array>
  <dict>
    <key>Codec</key>
    <integer>0</integer> <!-- codec address ("Probing codec #0" in g
    <key>Config</key>
    <string>0x01011070</string> <!-- new PinDefault -->
    <key>Node</key>
    <integer>22</integer> <!-- node ID (nid) -->
  </dict>
</array>

```

In some cases it's also necessary to adjust **Port Connectivity**. For **jacks**, bits 6 and 7 must be zero, so any value greater than 1 in char 7 of PinDefault means the node is disabled (you will see "Disabling pin nid X due to None connectivity" in getDump).

This also works for inputs, so if you don't have mic or line-in in sound preferences, you can use the same method to enable the inputs.

The only case we use the same Default Association in two nodes is when we want auto-detection, for example, line-out (green rear) and headphones (green front)

Code: [Select all](#)

```

nid 17 0x0221401f as 1 seq 15 Headphones Jack jack 1 loc 2 color
nid 18 0x01014010 as 1 seq 0 Line-out Jack jack 1 loc 1 color

```

The primary output (line-out or speaker) has Sequence **0** and headphones (auto-detect) has Sequence **f**.

If your mobo has only one line-out you can change rear mic and line-in into line-out to have 5.1 audio, for this you just have to change the **Default Device** byte of these nodes to **zero**.

Before

Code: [Select all](#)

```

nid 24 0x010119830 as 3 seq 0 Microphone Jack jack 1 loc 1 color
nid 26 0x010113050 as 5 seq 0 Line-in Jack jack 1 loc 1 color

```

After

Code: [Select all](#)

```
nid 24 0x01019830 as 3 seq 0      Line-out Jack jack 1 loc 1 color
nid 26 0x01013050 as 5 seq 0      Line-out Jack jack 1 loc 1 color
```

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