## ·IIIIII CISCO



# Open Source Used In Cisco Asynchronous Serial NIM - 16/24 Port for Cisco 4000 Series ISRs

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Julian Seward, Cambridge, UK. jseward@bzip.org bzip2/libbzip2 version 1.0.4 of 20 December 2006 --- A note on GPL versions

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### 1.2 montavista-2.6.32.59.cge 2.6.32.59

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Michael Chu <mmchu@pobox.com> AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk> Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch

#### Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de> Radio card (ITT sound processor)

bigfoot <br/>
bigfoot@net-way.net><br/>
Ragnar Hojland Espinosa <ragnar@macula.net><br/>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)Thanks go to the following people for patches and contributions:

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(If you think you should be in this list, but you are not, drop a line to the DVB mailing list) FlashPoint Driver Developer's Kit Version 1.0

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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

```
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
```

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

- \* http://www.hypermall.com/
- \* 10/1/97 commented out CFG\_PHYIE bit we don't care when the PHY
- \* interrupts us (except possibly for removal/insertion of the cable?)
- $\ast$  10/4/97 began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

- \* 10/5/97 added code to handle PHY interrupts, disable PHY on
- \* loss of link, and correctly re-enable PHY when link is
- \* re-established. (put back CFG\_PHYIE)
- \*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

- \*
- \* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

\*

- \* Linux driver for the IDT77201 NICStAR PCI ATM controller.
- \* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
- \* see init\_nicstar() for PHY initialization to change this. This driver
- \* expects the Linux ATM stack to support scatter-gather lists
- \* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- \*
- \* Implementing minimal-copy of received data:
- \* IDT always receives data into a small buffer, then large buffers
- \* as needed. This means that data must always be copied to create
- \* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

- \* Fix is simple: make large buffers large enough to hold entire
- \* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then
- \* copy small buffer contents to head of large buffer.
- \* Trick is to avoid fragmenting Linux, due to need for a lot of large
- \* buffers. This is done by 2 things:
- \* 1) skb->destructor / skb->atm.recycle\_buffer
- \* combined, allow nicstar\_free\_rx\_skb to be called to
- \* recycle large data buffers
- \* 2) skb\_clone of received buffers
- \* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation
- details.
- \*
- \*

```
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```

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\*

- \* M. Welsh, 6 July 1996
- \*

\*

\*/

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