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- 5 7936 12799 4864 2.4M
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WEV @@ WEV[B "1

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1.3 linux-kernel 5.15.10

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- * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
- * 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?)
- * 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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* M. Welsh, 6 July 1996
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