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Revision History

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<td>1.0</td>
<td>Feb 4, 2005</td>
<td>APS</td>
<td>Initial version</td>
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1 Platform: TriCore-TC1130

1.1 source

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<tr>
<td>tricore\sys_tricore.c</td>
<td>TriCore specific general code</td>
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<td>tricore\eth_tricore_tc1130.c</td>
<td>TriCore specific lowlevel ethernet driver for the TC1130</td>
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<td>tricore\serial_tricore.c</td>
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<td>tricore\drv*</td>
<td>TC1130 low level ethernet driver</td>
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This source is meant as a "getting started" service, the driver sources should probably be merged with those needed for an actual project.

1.2 Compile time settings in tcpipset.h

1.2.1 #define TRICORE_CLKFREQ

(default 20)

CPU clock as used by the hardware.

1.2.2 #define TRICORE_SERIAL_BAUDRATE

(default 38400)

Line speed for SERIAL module.

1.2.3 #define TRICORE_SERIAL_BUFSIZE

(default 2048)

Lowlevel buffer used for SERIAL module. As the driver does not implement hardware handshaking this should be big enough to buffer a complete PPP frame.

1.2.4 #define ETH_RECVBUFCOUNT

(default TCPIP_SESSIONS + 1)

Number of received ethernet frames buffered. Each buffer uses about 1.5 Kb. As the stack is usually slower than the hardware, allocating less than the number of possible TCP sessions is not a good idea as we would have to rely on the retries from the other side. This is not reliable (very good change of the other side aborting due to a timeout) and disastrous for the throughput.

1.3 Usage

All routines are only used internally by the stack.