

# STREAMS LINK LAYER

## DLPI STREAMS DRIVER FOR LINK LAYER

- IMPLEMENTS DLPI VER. 2.0
- STREAMS MULTIPLEXOR DRIVER
- COMPATIBLE WITH SCO, UNIXWARE, SOLARIS, QNX AND LINUX
- NETWORK MANAGEMENT SUPPORT
- SUPPORTS USER API AND TCP/IP INTERFACE

## APPLICATION PROGRAM INTERFACE

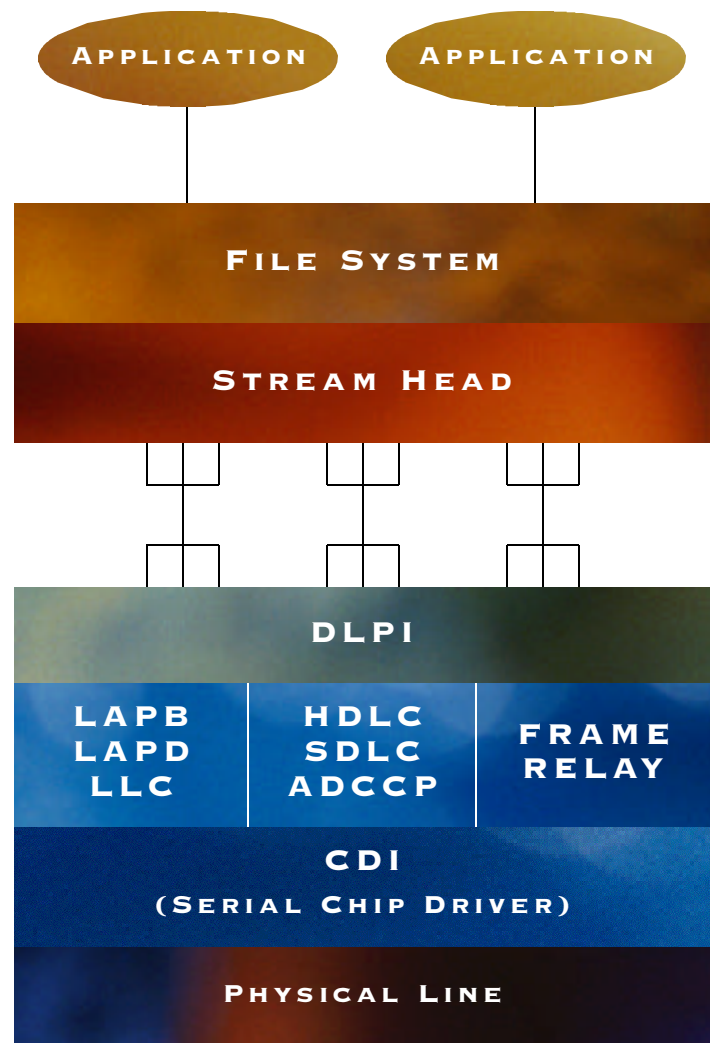
- LIBRARY INTERFACE TO DLPI PROTOCOL
- BLOCKING AND NON-BLOCKING I/O
- COMMON API FOR ALL PROTOCOLS
- LOG FILE INTERFACE
- API TRACING OPTIONS

## CDI STREAMS DRIVER

- STREAMS DEVICE DRIVER
- COMPATIBLE WITH SCO, UNIXWARE, SOLARIS, QNX AND LINUX
- NETWORK MANAGEMENT SUPPORT
- DRIVERS FOR A VARIETY OF SYNCHRONOUS BOARDS
- SUPPORTS USER API

## SERIAL CHIP DRIVER FEATURES

- MAXIMUM FRAME SIZE PARAMETER
- WATCHDOG TIMER ON TRANSMISSIONS
- INTER-FRAME DELAY OPTION
- HALF DUPLEX OR FULL DUPLEX LINES
- SEQUENCE END DELAY PARAMETER
- MODEM SIGNAL PARAMETERS
- OSCILLATION DETECTION FOR MODEM SIGNALS
- ACCESS TO DEVICE REGISTER STATUS
- ACCESS TO STATISTICS ON THE FOLLOWING: CRC ERRORS, UNDERRUNS, OVERRUNS, ABORTS, NUMBER OF BYTES TRANSMITTED/RECEIVED AND OTHERS
- DRIVER TRACING



## PHYSICAL INTERFACES

- V.35/RS232
- RS422/EIA530/X.21
- 56Kbps DDS
- T1 OR FRACTIONAL T1

## BOARD TYPES

- ISA BUS 1-PORT
- ISA BUS 2-PORT AND 4-PORT
- PCI BUS 2-PORT AND 4-PORT
- PCI BUS 16-PORT, 32-PORT AND 64-PORT

## **LAPB, LAPD AND LLC FEATURES**

- LAPB CCITT X.25 COMPATIBLE
- LAPD CCITT X.921 COMPATIBLE
- LLC IBM SNA COMPATIBLE
- NORMAL OR EXTENDED SEQUENCE NUMBERS
- CONFIGURABLE ADDRESSES
- SREJ IMPLEMENTED
- AUTOMATIC DTE/DCE DETECTION
- ACTIVE OR PASSIVE LINK SETUP
- FRAME SIZE PARAMETERS
- WINDOW SIZE PARAMETERS
- TEST, XID AND UA OPTIONS
- SUPPRESS IDLE RR OPTION
- OPTIONS TO SUPPRESS FRMR ON BAD FRAMES
- STATISTICS BY FRAME TYPE SENT AND RECEIVED
- SEVERAL TRACING OPTIONS

## **HDLC, SDLC AND ADCCP FEATURES**

- HDLC COMPATIBLE WITH ISO 3309, 4335 AND 7809
- SDLC IBM SNA COMPATIBLE
- ADCCP ANSI X3.66 COMPATIBLE
- ABM, ARM AND NRM MULTIDROP
- BOTH PRIMARY AND SECONDARY
- TWO-WAY ALTERNATIVE AND SIMULTANEOUS
- NORMAL OR EXTENDED SEQUENCE NUMBERS
- CONFIGURABLE ADDRESSES
- RESPOND TO GLOBAL ADDRESS
- FRAME SIZE PARAMETERS
- WINDOW SIZE PARAMETERS
- SREJ IMPLEMENTED
- TEST, XID AND UA SUPPORTED
- RIM AND SIM SUPPORTED
- OPTION TO USE RD TO DISCONNECT
- GROUP POLLING SUPPORTED USING UP
- POLL WITH I-FRAME OR RR

- SUPPRESS IDLE RR OPTION
- POLLING LIST PRIORITY CONTROL
- STATISTICS BY FRAME TYPE SENT AND RECEIVED
- SEVERAL TRACING OPTIONS

## **FRAME RELAY PROTOCOL STANDARDS**

- T1.606
- ANNEX D
- ISDN COMPATIBLE
- T1.602 (LAPD) CORE SERVICES
- Q.921 LAPD AVAILABLE

## **FRAME RELAY PARAMETERS**

- COMMITTED INFORMATION RATE
- COMMITTED RATE MEASUREMENT INTERVAL
- COMMITTED BURST SIZE
- EXCESS BURST SIZE
- ENCAPSULATION TYPE
- LMI TYPE AND OPTIONS

## **FRAME RELAY FEATURES**

- MULTIPLE PHYSICAL LINKS
- MULTIPLE PVCs PER LINK
- DATA METERING ACCORDING TO CIR
- ADJUSTABLE MEASUREMENT INTERVAL
- CONGESTION SIGNALING
- INVALID FRAME SIGNALING
- USE OF ANNEX D TO MANAGE THE LINK
- LAPD CORE FRAMING
- STATISTICS GATHERING
- TRACE BUFFERS FOR DIAGNOSTIC PROCEDURES



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