

DataRaptor™



www.aplabs.com

f 858. 674 2869

t 858. 674 2850

92127

San Diego, California

Via Del Campo Court

16868

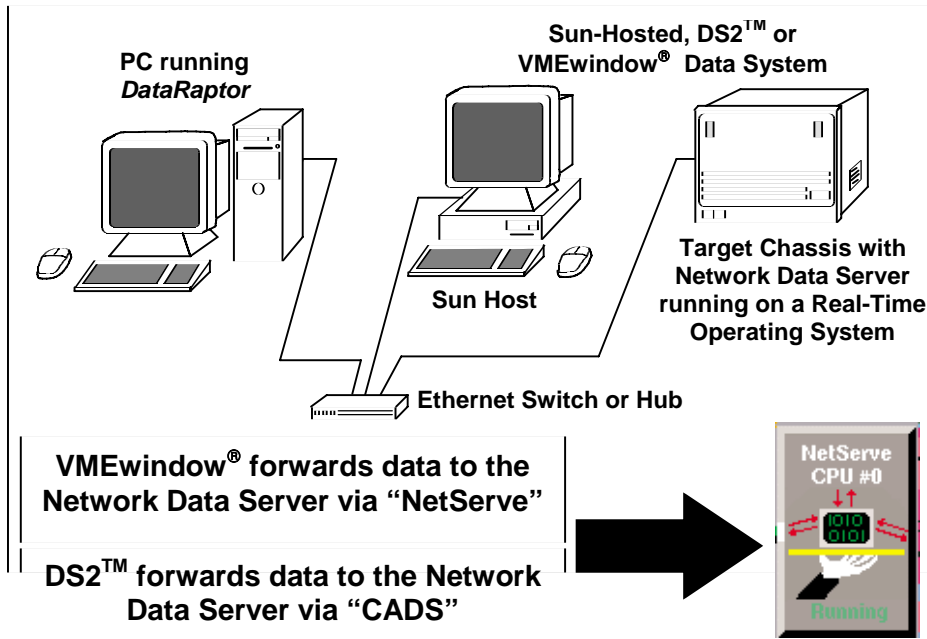
A 100% pure Java™ application for real-time data display and analysis

Developed by AP Labs, DataRaptor is a Java based client application designed for the real-time display and analysis of data acquired from a wide range of sources. Data types supported include: digitized analog data, telemetry, video (RGB and NTSC/PAL), and audio.

Data is received by DataRaptor over standard network interfaces such as Ethernet or ATM and displayed on a Windows PC, Solaris workstation, or any other platform that supports the Java™ Runtime Environment (JRE v1.3 or later).

DataRaptor forms a client relationship to a Network Data Server on another computer (typically - although not necessarily - a computer running a real-time operating system performing real-time data operations). The DataRaptor software can then access the data made available by the Network Data Server. Since DataRaptor establishes a client-server relationship with the Network Data Server only that data being displayed by the DataRaptor software is sent over the network minimizing the impact to the overall network bandwidth.

- *Client/Server Architecture, operates on any JRE v3.1 (or later) platform*
- *Point & Click design of graphical displays and widgets - no coding required*
- *Displays data in real-time or during post-test analysis*
- *Supports local selective archive and replay using disk or tape*
- *supports decompression of video JPEG buffers and μ -law compressed digital audio*
- *Wide range of graph and data types supported: strip charts, bar graphs, numerics, IRIG time, ASCII, gauges or dial instruments, warning & danger indicators, X-Y plots*



In the example system configuration shown at left the DataRaptor runs on a PC (often referred to as the “analyst workstation” - this could also be a Sun workstation). Real-time data is collected by a VMEwindow or Data System Server (DS2) -based system and transmitted to the DataRaptor via a the Network Data Server software interface.

Flexible networking options are a particular strength of the DataRaptor solution. In the example shown one network (Ethernet) is used for setup/control and data distribution - an alternate approach would be to use separate Ethernet and/or ATM-based networks for setup/control and data distribution/display.

Utilizing the point&click menu-driven interface, an example audio/video data display scenario is shown below:

