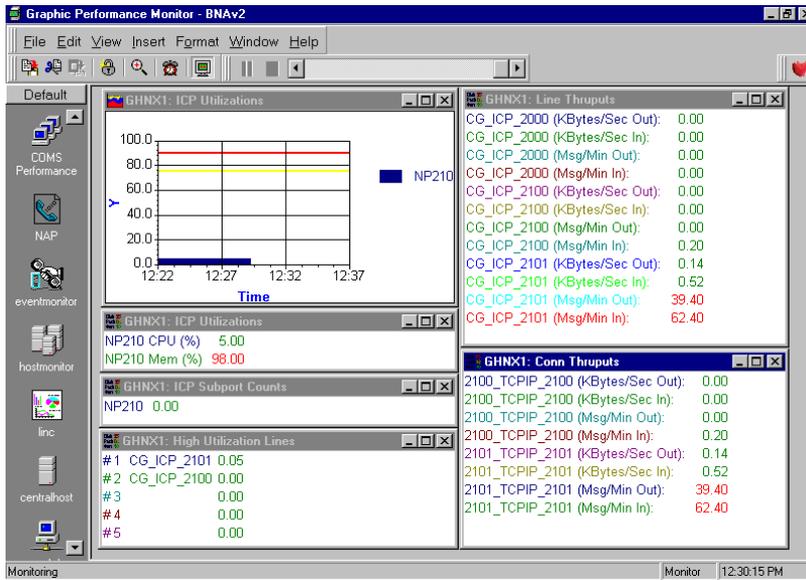# *Graphic Performance Monitor*™

GPM/BNAv2

The faster, more affordable way to monitor real-time BNAv2 performance

While you can find any number of performance analysis tools that will tell you every detail of your mainframe performance, the performance of your network has always been a mystery. With the GPM/BNAv2 module you'll have the fastest easiest way to monitor, understand and optimise your network nodes.

At a glance you'll see which nodes, connections and devices are most heavily utilised and you will be able to quickly rebalance the load to improve network performance.

Running as part of the Graphic Performance Monitor, this BNAv2 module makes it possible for you to monitor and optimise your network in real-time.

See inside your CP2000s

In addition to performance information about lines and stations, you can see detailed performance information about activities within each CP2000. You can see which line modules are most heavily utilised. In addition, you'll be able to see which lines are experiencing high

error rates and require attention. Warning and alarm thresholds can be established to visually indicate when utilisations or error rates are exceeded.

And it's a lot more than just a BNAv2 monitor

End-user performance depends on many factors. With GPM and the BNAv2 module you can see how every factor affects your performance. Monitor COMS response time and immediately see how changes in network load time affect mainframe activities. You can also track CPU activity, disk pack utilisation, LINC performance and task activities.

Sophisticated Alarms

Warning and alarm thresholds can be set either on the host or the PC so that you are alerted of various conditions. The types of alert include audible, visual, reporting and electronic.

Multi-Host Capability

In a multi-host BNA environment, you can opt to integrate data from each of the hosts into a consolidated data collection file, allowing you to monitor all your hosts from one PC display.

The GPM/BNAv2 module provides the following performance information:

Line and Device Throughputs
For selected lines/connections and devices on a BNA node
(A Series host or CP2000):
   Data input rate (bytes/second)
   Data output rate (bytes/second)
   Messages input rate (messages/minute)
   Message output rate (messages/minute)

Highest Utilization
Utilization percentage for the most heavily utilized lines/connections on a BNA node.

BSTD Line Information
For selected BSTD lines on a CP2000:
Overrun errors/minute
Format errors/minute
Framing errors/minute
NAKs sent/minute
NAKs received/minute
Parity errors/minute

BSC Line Information
For selected Bisync lines on a CP2000:
Overrun errors/minute
Format errors/minute
Framing errors/minute
NAKs sent/minute
NAKs received/minute
WACKs sent/minute
WACKs received/minute
TTDs sent/minute
TTDs received/minute

LAN Line Information
For selected LAN lines on a CP2000 or A Series ICP:
Retransmit limit exceeded/minute
Collisions/minute
Deferred frames/minute
Underrun errors/minute
Resource errors/minute
Overruns/minute
Alignment errors/minute

DLC Line Information
For selected DLC lines on a CP2000:
Aborts/minute
FCS failures/minute
Overrun errors/minute
Underrun errors/minute

BDLC Line Information
For selected BDLC lines on a CP2000:
Link errors/minute

X.25 Line Information
For selected X.25 lines on a CP2000:
Link errors/minute
Incoming calls/minute
Call requests/minute
Calls accepted/minute
Calls connected/minute
Receive Ready packets sent/minute
Receive Ready packets received/minute
Receive Not Ready packets sent/minute
Receive Not Ready packets received/minute
Interrupt packets sent/minute
Interrupt packets received/minute
Reset Request packets sent/minute
Reset Indication packets received/minute

ICP and Line Module Utilizations
For each ICP on an A Series host and each Line Module in a CP2000:
CPU Utilization
Memory Utilization

ICP Subport Counts
For each ICP on an A Series host:
Number of active subports