Discontinued Product—Support Information Only

This literature was published years prior to the establishment of Agilent Technologies as a company independent from Hewlett-Packard and describes products or services now available through Agilent. It may also refer to products/services no longer supported by Agilent. We regret any inconvenience caused by obsolete information. For the latest information on Agilent's test and measurement products go to:

www.agilent.com/find/products

Or in the US, call Agilent Technologies at 1-800-452-4844 (8am-8pm EST)

HP 64794A/B/C/D Selectable Trace Depth Emulation Bus Analyzer

Technical Data

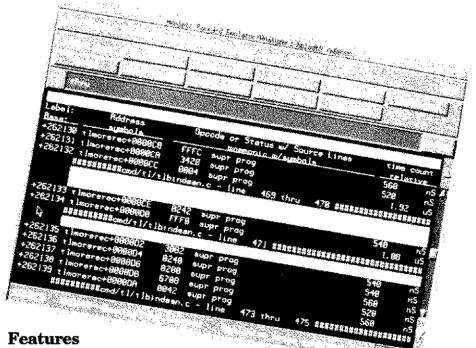
Powerful tracing and triggering, plus a deep trace buffer, makes debugging easier

Agilent Technologies

Description

The HP 64794A/B/C/D **Emulation Bus Analyzers offer** user selectable trace buffer depths of 8K, 16K, 64K, or 256K so that you can capture the amount of data needed to fit your application. These analyzers have the triggering, sequencing, and qualification features necessary to provide real-time, transparent measurements common in embedded systems. Additionally, you can precisely position your measurement deep within complex embedded code and then capture in real-time, large quantities of data around the specified event.

The extensive analysis features, combined with the emulator's dual bus architecture, allow measurement and display without breaking processor execution or inserting wait states. You can also interactively view measurement data without breaking processor execution or stopping the measurement.



- Selectable trace depth gives you the flexibility to choose the configuration for your applica-
- tion.
 Measurements include address, data, and status buses plus time and state count for compatible
- Eight full width hardware resources can be combined in sequential trace specifications using "find A followed by B..." constructs up to 8 levels deep.

HP 16-and 32-bit emulators.

• 32-bit range comparators can be combined with any of the 8 hardware resources at any level to specify exclusive areas for triggering or data capture.

- Precise time tagging of events helps locate discrepancies in execution times. State and time counts are supported over the entire memory depth.
- Prestore state can show an event occurring sometime before each stored event. You can observe which of several different functions is accessing a variable and corrupting it.
- Receives and drives trigger signals to/from other HP 64700 series emulators/analyzers, logic analyzers or oscilloscopes.

Specifications

Compatibility

The HP 64794 series emulation bus analyzers are compatible with HP 64700 series emulators for the following processors:

Motorola: 68000, 68EC000, 68HC000, 68HC001 (HP 64744A); 68020/EC020 (HP 64748B); 68030/EC030 (HP 64747B); 68040/EC040/LC040 (HP 64783A); 68302 (HP 64746G/J); 68331/332 (HP 64749G/H/J); 68340 (HP 64751A)

Intel: 8086/C86 (HP 64762G/H); 8088/C88 (HP 64763G); 80186/188, 80C186/C188, 80C186EA/C188EA, 80C186XL/C188XL (HP 64767A); 80C186EB/C188EB (HP 64767B)

Characteristics

Trace depth:	HP 64794A	8K
	HP 64794B	16K
	HP 64794C	64K
	HP 64794D	256K

Channels: 128 including 80 to monitor address, data, and status plus 48 for time/state count analysis and display.

Time tag: Resolution: 20 ns

Maximum time count: 22.9 minutes at full resolution

State count: Maximum count at full resolution: 68 x 10°

Sequence terms: 8

Maximum occurrence count: 65535

Prestore states: 1

Range recognizers: 1

Pattern recognition: 8 patterns over 80 channels (address, data, and status).

Ordering Information

Selectable trace depth emulation bus analyzer

Model Description

64794A	with 8K trace memory
64794B	with 16K trace memory
64794C	with 64K trace memory
64794D	with 256K trace memory

High speed memory modules

The 8k deep emulation bus analyzer may be configured to the desired trace depth with additional memory modules

Model Description

64172A	256K Byte high speed memory module
	for 64K trace buffer
64172B	1M Byte high speed memory module
	for 256K trace buffer
64172C	64K Byte high speed memory module
	for 16K trace buffer

These memory modules plug into existing connectors on the analyzer board. Four modules are required for 80 channels of address, data, and status as well as 48 channels for time/state count analysis and display.

For more information, call your local HP sales office listed in your telephone directory or an HP regional office listed below for the location of your nearest sales office.

United States:

Microprocessor Development Hotline (800) 447-3282

Hewlett-Packard Company 4 Choke Cherry Road Rockville, MD 20850 (301) 670-4300

Hewlett-Packard Company 5201 Tollview Drive Rolling Meadows, IL 60008 (708) 255-9800

Hewlett-Packard Company 1421 S. Manhattan Avenue Fullerton, CA 92631 (714) 999-6700

Hewlett-Packard Company 2000 South Park Place Atlanta, GA 30339 (404) 980-7351

Canada: Hewlett-Packard Ltd. 6877 Goreway Drive Mississauga, Ontario L4V1M8 (416) 678-9430

Europe: Hewlett-Packard European Marketing Centre P.O. Box 999 1180 AZ Amstelveen The Netherlands 31-20547-9853

Japan: Yokogawa Hewlett-Packard Ltd. 3-39-21 Takaido higashi Suginami-ku Tokyo 168, Japan (813) 3335 8192

Latin America: Latin American Region Headquarters Monte Pelvoux No.111 Lomas de Chapultepec 11000 Mexico, D.F. (525) 202-0155

Australia/New Zealand: Hewlett-Packard Australia Ltd. 31-41 Joseph Street Blackburn, Victoria 3130 Australia (A.C.N. 004 394 763) (03) 895-2895

Far East: Hewlett-Packard Asia Ltd. 22/F EIE Tower, Bond Centre 89 Queensway, Central, Hong Kong (852) 848-7070

Technical information in this document is subject to change without notice.

Printed in U.S.A. 3/93 5091-7158E