PART 1: Chronological Index

November 1980

Patient Monitoring Enhanced by New Central Station, *Timothy B. Blancke and Larry L. Nielsen*

High-Speed Raster Technique Provides Flexible Display, *Robert L. Stettiner and George L. Adleman*

Multi-Processor Architecture and Communications for Patient Monitoring, *James M. Rueter*

Self-Test and Serviceability for Dependable Central Patient Monitoring, *Jeffrey M. Goldberg*

Firmware for a Patient Monitoring Station, *Kim L. Hanna*

An Interactive HP 3000/IBM Mainframe Link, *Connie J. Ishida*

December 1980

Color Enhances Computer Graphics System, *John B. Frost and William L. Hale*

The System 45C User's Firmware Interface, *Robert A. Jewett and Robert W. Fredrickson*

Light Pen Aids User Interaction with Display, *Frederick J. Porter*

A Precision Color Raster-Scan Display for Graphics Applications, *Warren C. Pratt*

Display System Designed for Color Graphics, *Harold L. Baeverstad, Jr. and Clark C. Bruderer*

System 45C Power Supply Considerations, *J. Steven Becker*

PART 2: Subject Index

Month/Year		Subject	Model
		A	
Feb.	1980	Absorbance measurements	8450A
Sept.	1980	Aircraft inspection	9845T, 3820A
Nov.	1980	Alarms, heart-rate monitoring	78501A,78502A
Nov.	1980	Alarms, system self-test	78501A,78502A
July	1980	Amplifier, horizontal, CRT display	HP-85
July	1980	Amplifier, vertical, CRT display	HP-85
Aug.	1980	Analyzer, audio	8903A
May	1980	Analyzer, logic state	1610B
May	1980	Analyzer, logic state	1611A Opt 001
May	1980	Analyzer, wave	3586A/B/C
Sept.	1980	Angle measurement, electronic	3820A
Sept.	1980	Antenna assembly	9845T, 3820A
Dec.	1980	Area fill, graphics images	9845C
Nov.	1980	Arrhythmia monitoring	78501A,78502A
Oct.	1980	Assembler, table driven	64000
Aug.	1980	Audio analyzer	8903A
		B	
July	1980	BASIC, personal computer	HP-85
Dec.	1980	BASIC language, graphics	9845C
Aug.	1980	Buffer IC	HP-85
		C	
Mar.	1980	Calculator system, personal	HP-41C
Aug.	1980	Calculator with integrate key	HP-34C
Mar.	1980	Card reader	82104A
Nov.	1980	Cardiotach	78501A,78502A
Apr.	1980	Carrier return loss measurements	
Sept.	1980	Cassegrain structure, telescope	3820A
Nov.	1980	Central station	78501A,78502A
Feb.	1980	Chemical analysis, spectrophotometric	8450A
Mar.	1980	CMOS, bulk	HP-41C
Dec.	1980	Color graphics, CRT	9845C
Dec.	1980	Color specification models	9845C
Jan.	1980	Communications system measurements	3779A/B
Oct.	1980	Compiler, Pascal	64000
July	1980	Computer, personal	HP-85
Apr.	1980	Converter, frequency, 40 GHz	5355A
Sept.	1980	Coordinate measurements, large-scale, non-contact	9845T, 3820A
Apr.	1980	Counter, microwave, 26.5 GHz	5343A
Apr.	1980	Counter system, 40 GHz	5345A/55A/56A
Apr.	1980	Counter, universal	5345A
Aug.	1980	CPU design	HP-85
Dec.	1980	Cursor, tracking	9845C
Apr.	1980	CW frequency measurements	5355A,5345A
		D	
Sept.	1980	Deflection measurement	9845T, 3820A
July	1980	Delta-distance code, tape storage	HP-85
May	1980	Demultiplexing buses	1610B,1611A
Oct.	1980	Development system, logic	64000
Feb.	1980	Diffraction gratings, holographic	
July	1980	Digital servo design	HP-85
Oct.	1980	Directed-syntax softkeys	64000
June	1980	Disc management software	
Sept.	1980	Distance correction, air temperature and pressure	3820A
June	1980	Distance measurement, electronic	3850A

Month/Year		Subject	Model
Sept.	1980	Distance measurement, electronic	3820A
Aug.	1980	Distortion measurements	8903A
Dec.	1980	Dominant/nondominant color	9845C
June	1980	Dynamic distance measurements	3850A
		E	
Nov.	1980	ECG monitoring	78501A, 78502A
Nov.	1980	Echoplex	78501A, 78502A
Oct.	1980	Electronic bench	
June	1980	Electronic distance meter	3850A
Sept.	1980	Electronic total station	3820A
Nov.	1980	Emulator, IBM 3270	32229A
Oct.	1980	Emulators, microprocessor	64000
Jan.	1980	End-to-end measurements	3779A/B
May	1980	FDM system testing	3586A/B/C
Nov.	1980	Fibrillation detector	78501A, 78502A
Jan.	1980	Fixtures, impedance test	16091/2/3/4A
Aug.	1980	Floating audio source	8903A
Apr.	1980	Frequency measurements to 26.5 GHz	5343A
Apr.	1980	Frequency measurements to 40 GHz	5355A
		G	
May	1980	Generator, level, synthesized	3336A/B/C
Sept.	1980	Glossary, optical and mechanical terms	3820A
Dec.	1980	Graphical peripheral control	9845C
Dec.	1980	Graphics, color, CRT	9845C
July	1980	Graphics, personal computer	HP-85
Sept.	1980	Gravity sensing system	3820A
		H	
Apr.	1980	Harmonic heterodyne frequency converter, 40 GHz	5355A
Apr.	1980	Heads, frequency converter	5356A/B/C
Sept.	1980	Height-of-standards error	3820A
July	1980	HP-IB interface, personal computer	82937A
Sept.	1980	HP-IB interface, distance meter	38001A
		I	
Nov.	1980	IBM/HP 3000 interactive mainframe link (3270 emulator)	32229A
Jan.	1980	Impedance analyzer, 1-1000 MHz	4191A
June	1980	Industrial distance meter	3850A
Nov.	1980	Inquiry and development facility (IDF)	32229A
July	1980	Integer processing, fast	HP-85
July	1980	Integrated circuit, buffer	HP-85
Aug.	1980		
July	1980	Integrated circuit, CPU	HP-85
Aug.	1980		
July	1980	Integrated circuit, CRT controller	HP-85
Aug.	1980		
July	1980	Integrated circuit, keyboard controller	HP-85
Aug.	1980		
July	1980	Integrated circuit, printer controller	HP-85
Aug.	1980		
July	1980	Integrated circuit, RAM controller	HP-85
Aug.	1980		
July	1980	Integrated circuit, read/write amplifier	HP-85
Aug.	1980		
July	1980	Integrated circuit, ROM	HP-85

Aug.	1980	Integrated circuit, ROM	
July	1980	Integrated circuit, tape controller	HP-85
Aug.	1980		
July	1980	Integrated circuit, translator(TC)	82937A
Aug.	1980	Integration, numerical, by calculator	HP-34C
Nov.	1980	Intelligent network processor (INP)	
Nov.	1980	Interactive Mainframe Link/3000 (IML/3000)	32229A
Oct.	1980	Intermediate language	64000
Sept.	1980	Interpolation, sinusoidal patterns	3820A
Nov.	1980	Intrinsics, IML/3000	32229A
July	1980	I/O interfaces, personal computer	82937A

K

Aug.	1980	Key, calculator, for integration	HP-34C
Aug.	1980	Keyboard controller IC	HP-85

L

Oct.	1980	LALR parsing	64000
Sept.	1980	Lasing diode, GaAs	3820A
May	1980	Level generator	3336A/B/C
Dec.	1980	Light pen, raster-scan CRT	9845C
Oct.	1980	Linker, table-driven	64000
Mar.	1980	Liquid crystal display	HP-41C
Oct.	1980	Logic development system	64000
May	1980	Logic state analyzer	1610B
May	1980	Logic state analyzer	1611A Opt 001
Aug.	1980	LSI circuit design	HP-85

M

June	1980	Mass storage management software	
Dec.	1980	Memory design, color graphics display	9845C
Mar.	1980	Memory modules	82106A
Apr.	1980	Microcode development technique	
Oct.	1980	Microprocessor development system	64000
May	1980	Microprocessor testing	1610B,1611A
Apr.	1980	Microwave frequency measurements	5343A
Apr.	1980	Microwave frequency measurements	5355A
Mar.	1980	Microwave spectrum analyzer	8559A
Sept.	1980	Mirror mount	3820A
June	1980	Moving target measurements	3850A
Sept.	1980	Multifunction sequence	3820A
May	1980	Multiphase clocking	1610B,1611A
Jan.	1980	Multiplex system analyzer	3779A/B
Nov.	1980	Multi-processor architecture	78501A, 78502A

N

Aug.	1980	NMOS circuit design	HP-85
Aug.	1980	Notch filter, digitally tuned	8903A
Aug.	1980	Numerical integration by calculator	HP-34C

O

Sept.	1980	Optical angle encoder	3820A
Feb.	1980	Optical system, folded	8450A
Sept.	1980	Optical system, total station	3820A
Aug.	1980	Oscillator, audio	8903A
July	1980	Output control, vectored	HP-85

P

Oct.	1980	Pascal compiler	64000
Nov.	1980	Patient information center	78501A, 78502A
Nov.	1980	Patient monitoring	78501A, 78502A
Jan.	1980	PCM system analyzer	3779A/B

Aug.	1980	Polysilicon resistors	HP-85
June	1980	Position control	3850A
July	1980	Power supply, personal computer	HP-85
July	1980	Preallocation, variable	HP-85
Apr.	1980	Prescaler, 0.4-1.6 GHz	
Jan.	1980	Primary multiplex analyzer	3779A/B
Mar.	1980	Printed circuit hybrid technology	HP-41C
Mar.	1980	Printer, thermal	82143A
July	1980	Printhead, thermal	HP-85
Oct.	1980	PROM programmer	64500A
Apr.	1980	Pulsed RF frequency measurements	5355A

Q

Nov.	1980	QRS-matched filter	78501A, 78502A

R

Aug.	1980	RAM cell, two-read/one-write	HP-85
Aug.	1980	RAM controller IC	HP-85
July	1980	Random number generation	HP-85
Nov.	1980	Reconfiguration, automatic	78501A, 78502A
Jan.	1980	Reflection coefficient measurements, 1-1000 MHz	4191A
Sept.	1980	Refractive index, air, group velocity	3820A
Oct.	1980	Resource allocation	64000
Jan.	1980	RF impedance analyzer	4191A
Sept.	1980	Roelof's prism adaptor	11429A

S

Nov.	1980	SDLC	78501A, 78502A
May	1980	Selective level meter	3586A/B/C
Nov.	1980	Self-test system, four-level	78501A, 78502A
May	1980	Signal generator, synthesized	3336A/B/C
Aug.	1980	Signal-to-noise measurements	8903A
Aug.	1980	SINAD measurements	8903A
Aug.	1980	Software development system	HP-85
June	1980	Software for mass storage management	
Feb.	1980	Spectrophotometer, ultraviolet/visible	8450A
Mar.	1980	Spectrum analyzer 0.1 to 21 GHz	8559A
Aug.	1980	State-variable filters	8903A
June	1980	Static monitoring	3850A
Nov.	1980	Superaster	78510A
May	1980	Synthesizer/level generator	3336A/B/C

T

Sept.	1980	Telescope, catadioptric	3820A
Jan.	1980	Telephone system measurements	3779A/B
May	1980	Thermal converter, rms-to-dc	
Dec.	1980	3-D graphics, dominant area shading	9845C
Sept.	1980	Tilt meter, gravity sensing	3820A
Nov.	1980	Trends monitoring	78501A, 78502A
Sept.	1980	Triangulation measurements	9845T, 3820A
Aug.	1980	Two-read/one-write memory	HP-85

U

Feb.	1980	Ultraviolet/visible spectrophotometer	8450A

V

Dec.	1980	Vector generation	9845C
June	1980	Velocity measurements	3850A

W

May	1980	Wave analyzer	3586A/B/C

PART 3: Model Number Index

Model	Product	Month/Year
HP-34C	Calculator	Aug. 1980
HP-41C	Calculator System	Mar. 1980
HP-85	Personal Computer	July 1980
		Aug. 1980
1610B	Logic State Analyzer	May 1980
1611A Opt 001	Logic State Analyzer	May 1980
3336A/B/C	Synthesizer/Level Generator	May 1980
3586A/B/C	Selective Level Meter	May 1980
3779A/B	Primary Multiplex Analyzer	Jan. 1980
3820A	Total Station	Sept. 1980
3822A	Coordinate Determination System (9845T, 3820A)	Sept. 1980

3850A	Industrial Distance Meter	June	1980	16094A	Probe Fixture	Jan.	1980
4191A	RF Impedance Analyzer	Jan.	1980	32229A	IML/3000	Nov.	1980
5316A	Universal Counter	Sept.	1980	38001A	HP-IB Distance Meter Interface	June	1980
5335A	Universal Counter	Sept.	1980			Sept.	1980
5343A	Microwave Frequency Counter	Apr.	1980	64000	Logic Development System	Oct.	1980
				64100A	Development Station	Oct.	1980
5345A	Electronic Counter	Apr.	1980	64300A	Logic Analyzer	Oct.	1980
5355A	Automatic Frequency Converter	Apr.	1980	64500A	PROM Programmer	Oct.	1980
5356A/B/C	Frequency Converter Heads	Apr.	1980	78501A	Patient Information Center	Nov.	1980
8450A	UV/Vis Spectrophotometer	Feb.	1980	78502A	Patient Information Center	Nov.	1980
8559A	Spectrum Analyzer 0.1-21 GHz	Mar.	1980	78510A	Display	Nov.	1980
8903A	Audio Analyzer	Aug.	1980	78511A	Equipment Cabinet	Nov.	1980
9845C	Color Graphics Computer	Dec.	1980	78571A	Single-Channel Recorder	Nov.	1980
9876A	Thermal Graphics Printer	Nov.	1980	78572A	Dual-Channel Recorder	Nov.	1980
10264A	General-Purpose Personality Module for 1611A	May	1980	82104A	Card Reader	Mar.	1980
				82106A	Memory Modules	Mar.	1980
11429A	Roelof's Prism Adaptor	Sept.	1980	82143A	Thermal Printer	Mar.	1980
14451A	Circuit Analyzer Board	Nov.	1980	82903A	HP-85 16K RAM Module	July	1980
16091A	Coaxial Fixture Set	Jan.	1980	82936A	HP-85 ROM Module	July	1980
16092A	Spring Clip Fixture	Jan.	1980	82937A	HP-85 HP-IB Interface	July	1980
16093A/B	Binding Post Fixture	Jan.	1980				

PART 4: Author Index

A

Adleman, George L. — Nov. 1980
Alonso-Velez, Izagma I. — Oct. 1980

B

Baeverstad, Harold L., Jr. — Dec. 1980
Batham, Andrew — Jan. 1980
Bausch, James F. — July 1980
Becker, J. Steven — Dec. 1980
Belding, Richard L. — Mar. 1980
Blancke, Timothy B. — Nov. 1980
Bologlu, Ali — Apr. 1980
Bourque, Jacques Gregori — Oct. 1980
Boyan, Corydon J. — Aug. 1980
Boyd, Patrick V. — Mar. 1980
Brown, Troy L. — June 1980
Bruderer, Clark C. — Dec. 1980
Bryant, Mike — Jan. 1980
Buck, Dean — June 1980

C

Collins, Douglas J. — July 1980
Conklin, David R. — Mar. 1980
Cox, Roger — Oct. 1980

D

DeVilbiss, Alan J. — Oct. 1980
DiPietro, David M. — Sept. 1980
Donnelly, James B. — Oct. 1980
Dykes, Mark — Jan. 1980

F

Felsenstein, Ronald E. — Apr. 1980
Fleming, James H. — Mar. 1980
Foote, James D. — Aug. 1980
Fredrickson, Robert W. — Dec. 1980
Frost, John B. — Dec. 1980

G

George, David M. — Sept. 1980
Goldberg, Jeffrey M. — Nov. 1980
Gort, Alfred F. — Sept. 1980
Greenley, Gordon A. — Oct. 1980

H

Hale, William L. — Dec. 1980
Hanna, Kim L. — Nov. 1980
Hanna, William A. — June 1980
Hansen, John D. — May 1980
Henscheid, Kent R. — July 1980
Hopkins, George W. — Feb. 1980
House, Charles H. — Oct. 1980

I

Ichino, Toshio — Jan. 1980
Ishida, Connie J. — Nov. 1980

J

James, Gerald E. — Feb. 1980
Jekat, Hans J. — Apr. 1980
Jensen, Ronald C. — Sept. 1980
Jewett, Robert A. — Dec. 1980
Johnson, Douglas R. — Sept. 1980
Johnson, Norman L. — Mar. 1980

K

Kahan, William M. — Aug. 1980
Keil, Ronald W. — July 1980
Kerr, Brian W. — Oct. 1980
Kerschner, Ronald K. — Sept. 1980
Knudsen, Knud L. — Feb. 1980
Koepke, Larry L. — Apr. 1980

L

LaFollette, Robert J. — Sept. 1980
Lau, Chung Y. — Aug. 1980
Lo, Clement C. — July 1980
Low, Robert N. — Mar. 1980
Lowe, David J. — Mar. 1980
Lynch, Todd R. — July 1980 / Aug. 1980

M

Marathe, Vijay V. — Mar. 1980
Marton, Virgil — Jan. 1980
Maze, Craig — Mar. 1980
McDonley, P. Alan — Oct. 1980
McOmber, Val D. — Sept. 1980
Mikkelsen, Tim I. — July 1980
Mills, Nelson A. — July 1980 / Aug. 1980
Molinari, David H. — Mar. 1980
Monnier, Richard E. — Feb. 1980
Moore, Charles E. — Sept. 1980
Morganthaler, Mark P. — Feb. 1980
Morris, Donald L. — Mar. 1980
Morrill, Justin S., Jr. — May 1980
Musch, Bernard E. — Mar. 1980
Muterspaugh, Milo E. — Oct. 1980

N

Nairn, John H. — July 1980
Nielsen, Larry L. — Nov. 1980

O

Offermann, Robert W. — Apr. 1980
Ogden, Deborah J. — May 1980
Ohkawara, Hideo — Jan. 1980
O'Neill, Peter M. — May 1980

P

Pearson, Robert — Jan. 1980
Pontis, George D. — Aug. 1980
Porter, Frederick J. — Dec. 1980
Pratt, William C. — Dec. 1980

Q

Quick, Roger D. — Mar. 1980

R

Rueter, James M. — Nov. 1980
Russell, Homer C. — July 1980

S

Saponas, Thomas A. — Oct. 1980
Sasaki, Gary D. — Sept. 1980
Sayed, Mohamed M. — Apr. 1980
Schleifer, Arthur — Feb. 1980
Schneider, Richard F. — Apr. 1980
Schwartz, Alfred — Feb. 1980
Sims, David J. — Sept. 1980
Smith, David E. — June 1980
Spreadbury, Brian G. — July 1980
Steiger, Gerald W. — Mar. 1980
Steiner, Glenn C. — Feb. 1980
Stettiner, Robert L. — Nov. 1980
Stewart, James B. — Oct. 1980
Sugihara, Noriyuki — Jan. 1980
Sweetser, David J. — July 1980

T

Thomas, Paul L. — May 1980

W

Ward, Michael J. — Sept. 1980
Wasinger, Gerald F. — Sept. 1980
Weber, Lynn — Feb. 1980
Widmayer, Robert W. — Feb. 1980
Willis, Barry G. — Feb. 1980
Winslow, Phillip D. — May 1980
Wong, John J. — Mar. 1980

Y

Yackle, Brad E. — Oct. 1980