

HOSTED BY THE SOUTHERN CALIFORNIA REGIONAL USERS GROUP

HP 3000 INTERNATIONAL USERS GROUP

1984 HP 3000 INTERNATIONAL USERS GROUP DISNEYLAND HOTEL, FEBRUARY 26-MARCH 2 ANAHEIM, CALIFORNIA, USA

QA76,8 419 419 1994

CONFERENCE PROCEEDINGS

of the

HP3000 INTERNATIONAL USERS GROUP

February 27 - March 2 1984 Anaheim, California USA

HPL/RESEARCH LIBRARY BUILDING 2L P.O. BOX 10490 Program committee PALO ALTO, CA 94303-0971

Frank Vogt Ann E. Paul Charles Finley

Proceedings:	HP3000	IUG 19:	84 Anal	eim
i i ocecuings,	TIT 2000	TOG TO	D4 Allai	ICITII

SCRUG HOST COMMITTEE MEMBERS

Charles Finley Jr. Anne E. Paul Judith S. Fisher James Robinson

Carm Gravagno Dr. Halmuth H. Schaefer

Larry Haftl Charles Shimada
Arline King Bruce Toback
Frank Irvine Vicki Toback
Jane Knight Frank Vogt

Tom Knight Oren "Ken" Williams

Doug Mecham James Wylie

IUG Staff

William Crow, Association Manager
Aldena Duval, Membership Services Manager
Renaye Lee, Conference Manager
Ben Lloyd, Technical Manager
Jeff Miotke, International Liaison Manager
Nancy Trankle, Membership Activities Manager
Linda Henson, Financial and Administration Manager
Betty Martin, Publications Manager

X	Personal Computer Networking by Paul T. Antony	1-1
	New Trends in Workstation I/O by Jim Beetem and Catherine Smith	. 2-1
	Performance Characterization of Disc Caching: A Case Study by Becky McBride and Sam Boles	3-1
	Image: An Empirical Study by B. David Cathell	4-1
	Customer Satisfaction Through Quality Software by Dan Coats and Michael McCaffrey	5-1
	Quality and Productivity Improvements in the Printed Circuit Assembly Process Through the Use of Statistical Quality Control by F. Timothy Fuller	6-1
	Local Area Networking: Issues and Answers by Jim Geers	7-1
	CAP=PM; Privileged Mode De-Mystified by Jason M. Goertz	8-1
	Bar Codes - Are They for You? by Bruce M. Henderson	9-1
	Use of COBOL II Macros for Database Access by Jerrel Baxter, CDP	10-1
	The Ins and Outs of Pascal/3000/I/O by Susan R. Kimura	11-1
	Systematic Redesign Modifying Object Code by Phil Curry	12-1
	Software Prototyping: Today's Approach to Information Systems Design and Development by Orland Larson	13-1
	Data Base Design Tools: A Survey of Current Research, an Opportunity for Customer Input by Abe Lederman	14-1
	RPG/3000 by Nancy Lucas	15-1
	Avoiding Heap Overflow and Stack Overflow with Pascal/3000 by Christopher P. Maitz	16-1
	Satellite Communication: Overview and Application by Doug McLean	17-1
	Technical Publication Costs Cut in Half with Laser Printing by Steve Wilk and Sam Boles	18-1
	A DPer's Introduction to Office Automation Trends, Technologies, and Applications by Duane Schulz	19-1

Practical Point of View	
by Chuck Thompson	20-1
Getting Started in Data Capture by Bruce Toback	21-1
MPE V Performance Results by Rick Simon	22-1
Structured Tuning: A Layered Approach to Managing System Performance by Steve Wilk and Sam Boles	23-1
Optimizing System Usage in a Multi-CPU Environment by Joel Martin	
Features and Performance of HP<->HP Data Communications Products by Peter Hansen	25-1
Stop Growing Mushrooms - Part III by Tom Knight	26-1
Zen and the Art of Software Maintenance by Marc Covitt	27-1
Performance Programs and the Measurement Interface by Bryan Carroll	28-1
The "Zero-Defect" Philosophy and Methodology of Software Design by Bruce Toback	29-1
Bringing Business Graphics to the Masses by Alan Arensby	30-1
Configuring DSN/MRJE for Simplicity and Savings by Karl C. Collins	31-1
HP-to-IBM Datacommunications by Peter Hansenby	32-1
Controlled Data Communications Interfacing With Remote Micro Computers by David L. Ashby and Mike Shelton	33-1
Portable Development Between the HP 3000 and a Microcomputer using Pascal by Kenneth C. Butler	34-1
Comparative Merits of a Central Data Base and Replicated Data Bases for an Integrated Inventory Control System by John Hill	35-1
Hub of Systems Development and Documentation by Stephen M. Butler	36-1
Priviledged Mode How to Use it Safely and Effectively by Joseph C. Felix and Chris Hauck	37-1
An Alternate Tape Backup System Replacing STORE and SYSDUMP by Jorg Grossler	38-1

by Dennis Heidner	39-1
Optimizing the Operations Environment Through the Use of Manufacturing Techniques by Victor Rozek and Sheila Drummer	40-1
IMAGE/3000 - The Cost of Single Threading in a Large Data Base by William M. Lyons	41-1
Networks - It's a Jungle Out There by V.A. Shoemaker	42-1
Enhancing Forms by Alvin Bruce Charity and Katherine Joan Dante	43-1
HP 3000 RPG/VIEW Interactive Processing Topics by Christopher J. Colburn	44-1
Play it Again, KSAM by Gary Todoroff	45-1
Burn Before Reading ~ HP3000 Security and You by Eugene Volokh	46-1
OPT/3000 - What It Is and What It Does by Tom Idema	47-1
Running a Small-Shop Information System Based on the User/Programmer Concept by Eric W. Roberts	48-1
Virtual I.S. Staff to Fill I.S. Staffing Gaps by Ron Ellis with Dave Datz	49-1
The Cutting Edge: An Adventure in Fourth Generation Software by John Bescher	50-1
Electronic File Cabinet - Online Information Systems for Unstructured Data by Franz-Josef Boll and Joachim Geffken	51-1
Stress Control by Dr. Ernest R. Simmons	52-1
Disc Memory Caching on a Series III with Extra Data Segments by Kurt D. Rahm	53-1
How Production Can Exist With Development Without Getting "Smashed" by John D. Baker	54-1
Auditing the HP3000 Data Center by Steve Finn and Betsy Leight	55-1
Microcomputers and the HP 3000; An Issue of Communication by R. Gregory Stephens	56-1
An Introduction to Data Base Normalization by Richard L. Seltzer	57-1
Allocating Data Center Costs by Gary Leight	58-1
i_3	

by Jeff Kell	59-1
Configuring Your System by Jeff Kell	60-1
Data Communications Shortens the Distance by James F. Dowling	61-1
Managing and Supporting Personal Computers in a Datacenter Environment by Jeffrey J. Blau	62-1
IMAGE Locking: Practices and Pitfalls by Michael A. Casteel	63-1
Small World, But How Should It Be Organized? by Chris Spottiswoode	64-1
System Managers Self Help Procedures by John Vega	65-1
Distributed Processing Using IMF/3000 by Michael E. Ura	66-1
Local Area Networking Simplified With a Data PABX by C.H. "Bill" Skaug	67-1
Office Automation, A Cautious Approach by Russ Brandford	68-1
Recover It Yourself With User Logging by Diane Weir	69-1
HP 3000 - Sizing and Performance. More Machine For Your Dollar, or "Where Did All My Hardware Go?" by John S. Parkinson	70-1
Quality Documentation A How-To by R. Hugo McIntyre	71-1
Disaster Recovery - Planning for the Unplanned! by Richard A. Savaiano	72-1
The Three Bears of IMAGE by Fred White	73-1
HP1000 Topic, To Be Announced Requirement for Proceedings Paper Waived	74-1
A Distributed Network For Device-Dependent Computer Graphics by Gary L. Koenig and Clifton Harald	75-1
MPE Log Files for Performance, Security and Debugging by Denys Beauchemin	76-1

Proceedings: HP3000 IUG 1984 Anaheim

A Management Overview of Computer Power Problems by Ed Muxo	78-1
Software as a Long Term Investment by Birket Foster	79-1
Accounting Rods: New Visibility with Analog Financial Statements by DSG/3000 by Sam Boles	80-1
Supporting Microcomputers - Small World, But Lots of Consequences	81-1

LIST of PRESENTATIONS – by SPEAKER BUSINESS (BU)

Henderson, Bruce M. "Bar Codes — Are They For You?"	9-1
Toback, Bruce "Getting Started in Data Capture"	21-1
Heidner, Dennis "Disaster Planning and Recovery"	39-1
Roberts, Eric W. "Running a Small-Shop MIS"	48-1
Ellis, Ron "Virtual IS Staff"	49-1
Bescher, John "The Cutting Edge: An Adventure in Fourth Generation Software"	50-1
Leight, Gary "Allocation of Data Center Costs"	58-1
Foster, Birket "Software as a Long-Term Investment"	79-1
DATA BASE (DB)	
Cathell, David B. "IMAGE: An Empirical Study"	4-1
Baxter, Jerrel "Use of COBOL II Macros for Data Base Access"	10-1
Lederman, Abe "Data Base Design Tools"	14-1
Hill, John "Comparative Merits of a Central Data Base for an Integrated Inventory Control System"	35-1
Lyons, William M. "IMAGE/3000 — The Cost of Single Threading in a Large Data Base"	41-1
Seltzer, Richard "An Introduction to Data Base Normalization"	57-1
Casteel, Michael "IMAGE Locking — Practices and Pitfalls"	63-1
White, Fred and Rego, Alfredo "The Three Bears of IMAGE"	73.1

DATA COMMUNICATIONS (DC)

	Beetem, Jim and Smith, Catherine "New Trends in Workstation I/O"	2-1
	Geers, Jim "Local Area Networking Issues and Answers"	7-1
	McLean, Doug "Satellite Communication Review and Applications"	17-1
	Hansen, Peter "Features and Performance of HP-to-HP Data Communication Products"	32-1
1	Hansen, Peter "HP-to-IBM Data Communications"	32-1
	Shoemaker, Victoria "Networks — It's a Jungle Out There"	42-1
	Dowling, James F. "Data Communications Shortens the Distance"	61-1
	Ura, Michael E. "Distributed Processing Using IMF/3000"	66-1
	Skaug, Bill "Local Area Networking Simplified with a Data PABX Approach"	67-1
	GRAPHICS (GR)	
	Arens, Alan A. "Bringing Graphics to the Masses"	30-1
	Koenig, Gary "A Distributed Network for Device-Independent Computer Graphics"	75-1
	Boles, Sam "Accounting Rods: New Visibility of Disc Caching — A Case Study"	80-1
	LANGUAGE SUPPORT (LS)	
	Kimura, Sue "The In's and Out's of PASCAL/3000 I/O"	11-1
	Lucas, Nancy "RPG/3000"	15-1
	Maitz, Chris "Writing Large Systems in PASCAL on the HP3000"	16-1
	Butler, Kenneth C. "Portable Development Between the HP3000 and a Microcomputer Using PASCAL"	34-1
	Colburn, Christopher "HP3000 RPG/VIEW Interactive Processing Topics"	44-1

Todoroff, Gary "Play it Again, KSAM"	45-1
OFFICE AUTOMATION (OA)	
Boles, Sam and Wilk, Steve "Technical Publication Costs Cut in Half With Laser Printing"	18-1
Schulz, Duane "A DPer's Introduction to Office Automation: Technologies, Trends and Applications"	19-1
Thompson, Chuck "Which of HP's Many Word-Processing Systems is for You?: A Practical Point-of-View"	20-1
Geffken, Joachim and Leefmann, Joachim "Electronic File Cabinet — Full Text and Keyword Retrieval on HP3000"	51-1
Bradford, Russell "Office Automation — A Cautious Approach"	68-1
OPERATIONS (OP)	
Knight, Tom "Mushrooms, Part III"	26-1
Covitt, Mark "Software PM's — Preventing Systems and Program Disaster"	27-1
Dummer, Sheila, and Rozek, Victor "Optimizing the Operations Environment Through the Use of Manufacturing Techniques"	40-1
Savaiano, Richard "Disaster Recovery — Planning for the Unplanned!"	72-1
PERSONAL COMPUTERS (PC)	
Antony. Paul "Personal Computer Networking"	1-1
Ashby, David L. "Controlled Data Communications Interfacing with Remote Micro Computers"	33-1
Stephens, Gregory "Microcomputers and the HP3000: An Issue of Communications"	56-1
Blau, Jeffrey J. "Managing and Supporting Personal Computers in a Large Corporation"	62-1
Folkins, Dale "Using Your HP150 as an HP3000 Work Station"	77-1
Foster, Birket "Supporting Microcomputers — A Small World but Lots of Consequences"	81-1

QUALITY ASSURANCE (QA)

Coats, Dan and McCaffery, Michael "Customer Satisfaction Through Quality Software"	5-1
Fuller, Timothy F. "Quality and Productivity Improvements in the Manufacturing Process Through the Use of Statistical Quality Control"	6-1
SYSTEM MANAGEMENT (SM)	
Goertz, Jason M. "CAP=PM; Privileged Mode De-Mystified"	8-1
Simon, Rick "MPE V Performance Results"	22-1
Wilk, Steve and Boles, Sam "Structured Tuning: A Layered Approach to Better System Performance"	23-1
Martin, Joel "Optimizing System Usage in a Multi-CPU Environment"	24-1
Carroll, Bryan "Performance Programs and the Measurement Interface"	28-1
Collins, Karl "Configuring DSN/MRJE for Simplicity and Savings"	31-1
Grossler, Jorg "An Alternate Tape Backup System Replaying STORE and SYSDUMP"	38-1
Idema, Tom "OPT/3000 — What it is and What it Does"	47-1
Baker, John D. "How Production Can Exist With Development Without Getting 'Smashed'"	54-1
Finn, Steve "Auditing the HP3000 Data Center or: How to Survive an Audit!"	55-1
Kell, Jeff "Configuring Your System"	60-1
Vega, John "System Managers Self-Help Procedures"	65-1
Parkinson, John S. "Sizing and Performance — More Machine for Your Dollar, or "Where Did All My Hardware Go?""	70-1
Beauchemin, Denys "MPE Log Files for Performance, Security and De-bugging"	76-1

USER APPLICATIONS (UA) (System Development)

Larson, Orland J. "Software Prototyping: Today's Approach to Information Systems Design"	13-1
Toback, Bruce "Programming Techniques for Zero-Defect Software"	29-1
Butler, Stephen "Dictionary: Hub of Systems Development and Documentation"	36-1
Hauck, Chris and Felix, Joe "Privileged Mode — How to Use it Safely and Effectively (With Practical Applications)"	37-1
Dante, Katherine and Charity, Alvin B. "Enhancing Forms"	43-1
Rahm, Kurt D. "Disc Memory Caching on a Series III With Extra Data Segments"	53-1
Kell, Jeff "Process Handling for Fun and Profit"	59-1
Spottiswoode, Chris "Small World, but How Should it be Organized?"	64-1
Weir, Diane "Recover it Yourself with User Logging"	69-1
MISCELLANEOUS (MI)	
Boles, Sam and McBride, Becky "Performance Characterization of Disc Caching: A Case Study"	3-1
Curry, Phil "Systematic Redesign: Modifying Object Code"	12-1
Volokh, Eugene "Burn Before Reading — HP3000 Security and You"	46-1
Simmons, Ernest R. "Stress Control"	52-1
McIntyre, Robyn "User Documentation — A How To"	71-1
To Be Announced "Overview of the HP1000 — What It Is, What It Does, Who Should Use It and Why"	74-1
Muxo, Ed "An Overview of Computer Power Problems"	78-1