

M. Golson

A C M SYMPOSIUM ON OPERATING SYSTEM PRINCIPLES

Mountain View Hotel, Gatlinburg Tennessee

October 1 - 4, 1967

Conference telephone: (615) 436-4132

Sunday, October 1

1:00 pm to 11:00 pm Registration - Hotel  
7:00 pm to 10:00 pm Refreshments - Hotel

Monday, October 2

9:00 am to 11:30 am Session 1 - Huff House

VIRTUAL MEMORY

Herbert Hellerman, chairman

Dynamic storage allocation systems.

B. Randell and C. J. Kuehner  
IBM Research Center, Yorktown Heights, New York

Virtual memory, processes and sharing in Multics.

R. C. Daley and J. B. Dennis  
M.I.T. Project MAC, Cambridge, Massachusetts

A study of the effect of user program optimization in a paging system.

L. W. Comeau  
IBM Scientific Center, Cambridge, Massachusetts

10:15 am Coffee

Commentary R. Fabry *University of Chicago*

A. Scherr *Project Mac. - Now at IBM.*

Discussion

12:00 noon Luncheon - Hotel

Larry Arshibald - KAPL

1:30 pm to 4:00 pm Session 2 - Huff House

MEMORY MANAGEMENT

Clark Weissman, chairman

An empirical study of the behavior of programs in a paging environment.

L. C. Varian and E. Coffman - *From U.C.L.A. - Edison*  
Princeton University, Princeton, New Jersey

Resource management for a medium scale time sharing operating system.

G. Oppenheimer and N. Weizer  
R. C. A. Electronic Data Processing, Cherry Hill, New Jersey

The working set model for program behavior.

P. J. Denning  
Massachusetts Institute of Technology, Cambridge, Massachusetts

2:45 pm Coffee

Commentary J. Babcock

P. Cramer

A. Lett IBM 360/67 *Software magazine*

Discussion

6:00 pm to 7:30 pm Social Hour - Hotel

7:30 pm Banquet

"Unprincipled Operating Systems"

Dr. John Weil, General Electric Company

Tuesday, October 3

9:00 am to 11:30 am Session 3 - Huff House

EXTENDED CORE MEMORY SYSTEMS

Martin Graham, chairman

Consideration in the design of a multiple computer system with extended core storage.

K. Fuchel and S. Heller  
Brookhaven National Laboratory, Upton, New York

A philosophy for computer sharing.

E. Irons  
Institute for Defense Analysis, Princeton, New Jersey

11:15 am Coffee

Commentary ~~R. Barton~~

R. Levee @ DC

R. Merrell *Burrage*

Discussion

1:30 pm to 4:00 pm Session 4 - Huff House

PHILOSOPHIES OF PROCESS CONTROL

Jack Dennis, chairman *MIT*

The structure of the "THE"-multiprogramming system.

E. Dijkstra  
Technological University, Eindhoven, Netherlands

A scheduling philosophy for multi-processing systems.

B. Lampson  
University of California, Berkeley, California

An implementation of a multiprocessing system.

W. Plummer and W. Ackerman  
M.I.T. Research Laboratory of Electronics, Cambridge, Massachusetts

2:45 pm Coffee

Commentary M. Lehman

J. Saltzer *MIT*

Discussion

Wednesday, October 4

9:00 am to 11:30 am Session 5 - Huff House

SYSTEM THEORY AND DESIGN

John Gosden, chairman *MIT*

Three criteria for designing computing systems to facilitate debugging.

E. Van Horn  
General Electric Company, Phoenix, Arizona

Dynamic supervisors - their design and construction.

D. Huxtable and M. Warwick  
English Electric Computers, Stoke-on-Trent, England

Protection in an information processing utility.

R. M. Graham  
M.I.T. Project MAC, Cambridge, Massachusetts

10:15 am Coffee

Commentary R. Karp *I.B.M.*

P. Neumann *Bell Labs.*

Discussion

1:30 pm to 4:00 pm Session 6 - Huff House

COMPUTER NETWORKS AND COMMUNICATIONS

Walter Kosinski, chairman

Multiple computer networks and intercomputer communication.

L. Roberts

Advanced Research Projects Agency, Washington, D. C.

A digital communication network for computers giving rapid response at remote terminals.

K. Bartlett, D. Davies, R. Scantlebury and P. Wilkinson  
National Physical Laboratory, Teddington, England

A position paper on computers and communication.

J. B. Dennis

M.I.T. Project MAC, Cambridge, Massachusetts

2:45 pm Coffee

Commentary L. Hittel

V. Vaughan *Bell Tel.*

Discussion *Kevin: Gellman.*