70 Years Ago – Date Recognitions

These viewgraphs are replicated as the VIP Club website’s February, 2016 ‘Article for the Month’:
• On February 15, 1946 the ENIAC (see page 5) was dedicated by the Army at the Moore School of Engineering in the University of Pennsylvania,
• Page 3 notes the 1946 formation of Engineering Research Associates, and
• Page 7 notes the Burroughs Research Center in Philadelphia in 1946.

Unisys
and the Growth of Computing

Ron Q. Smith
Unisys Fellow, retired
Unisys – A Historical Perspective

• Unisys Corporate History
• The Evolution of Mainframes
• Modern Computing Trends
Elmer A. Sperry (1860 – 1930)

John Mauchly & J. Presper Eckert
William S. Burroughs (1855 – 1898)

American Arithmometer Co.

1885 St. Louis, Missouri

1903 Detroit, Michigan

June 2015

Ron Q. Smith
Large Scale Digital Computing Starts with ENIAC

June 2015

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Commercial Computing Starts With UNIVAC
1950 ElectroData division of Consolidated Engineering Corp. in Pasadena, California

1946 Burroughs Research Center in Philadelphia, Pennsylvania

1954 ElectroData Corp.

1956 ElectroData Division of Burroughs, Corp.

Datatron
UNIVAC 1107

- Exec I – Multiprocessing
- Exec II – Multiprogramming, Job Scheduling
- Assembler and FORTRAN
UNIVAC 1108

- Exec 8 – Multiprocessing, Real Time, Transaction Processing
- MASM, FORTRAN, COBOL

June 2015
Ron Q. Smith
Mainframe Programming

Grace Hopper

- ALGOL and FORTRAN for Scientific
- COBOL Dominates Business
- 1100 Assembler for Real Time
What Are They Used For?

- Engineering and Scientific Applications
- Real Time Control and Messaging
- Late 1960s and The Rise of Business Applications
  - United Airlines Transaction Interface Package (TIP) on 1108 Exec 8
  - COBOL becomes the programming language (mostly)
The Migration To Business

• Engineering/Scientific Customers Migrate to Super Computers

• Businesses Start to Automate Processes
  – Transaction Processing
  – Security
  – Recoverability
  – Availability and Reliability
1986 Unisys Is Formed

Burroughs and Sperry Merge

• Burroughs Corporation makes offer in December 1985

• Merger Completes September 1986
What’s In A Name?

• Unisys is chosen
  – Employee contest
  – Suggested by a former Burroughs employee
    **UNiversal Information SYStems**
    – Unisys is not an acronym says the corporation

• Former Sperry employees say it means
  “**UNivac Is Still Your Supplier**”
After The 3rd Generation

• Systems Get Larger Faster
  – Semiconductor technology accelerates
  – Globalization of industries
  – Competition, the Internet, and efficiency

• Applications and databases scale up
  – Massive investment in application modernization
  – E-business
ClearPath Plus
On To The Future

• The ClearPath 2020 Program
  – Planning for what systems will look like in 2020
  – Design teams working now
CMOS Platforms… Focus on high-end performance

Foundation attributes…
- Scalability, flexible I/O and memory
- Code compatibility
- Enterprise-class reliability

Architectural evolution…
- Specialty engines
- Distributed functions
- Secure partitioning

NextGen Platforms… Leverage Intel technology
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LM Benson, webmaster.

unisys