

Unisys and the Growth of Computing

Ron Smith

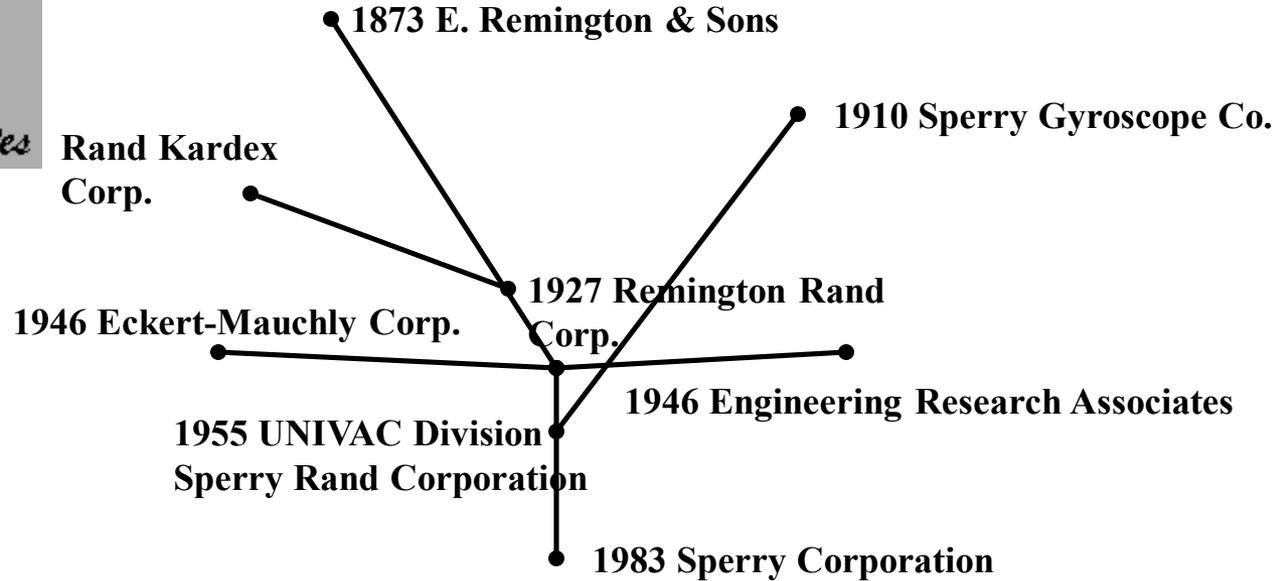
Unisys – A Historical Perspective

- Unisys Corporate History
- The Evolution of Mainframes
- Modern Computing Trends



Elmer A. Sperry (1860 – 1930)

UNIVAC[®]



John Mauchly &
J. Presper Eckert



William S. Burroughs (1855 – 1898)



American Arithmometer Co.

1885 St. Louis, Missouri

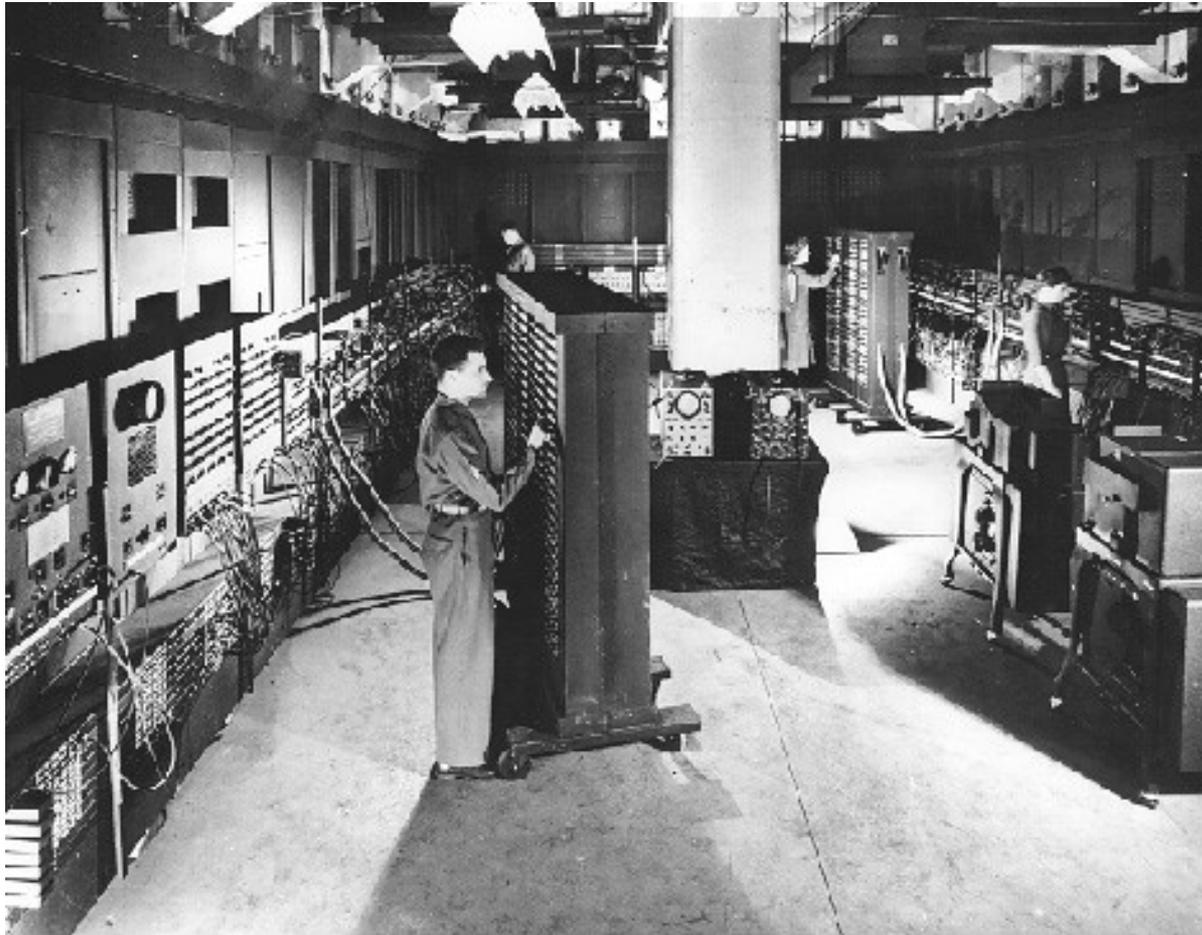
June 2015



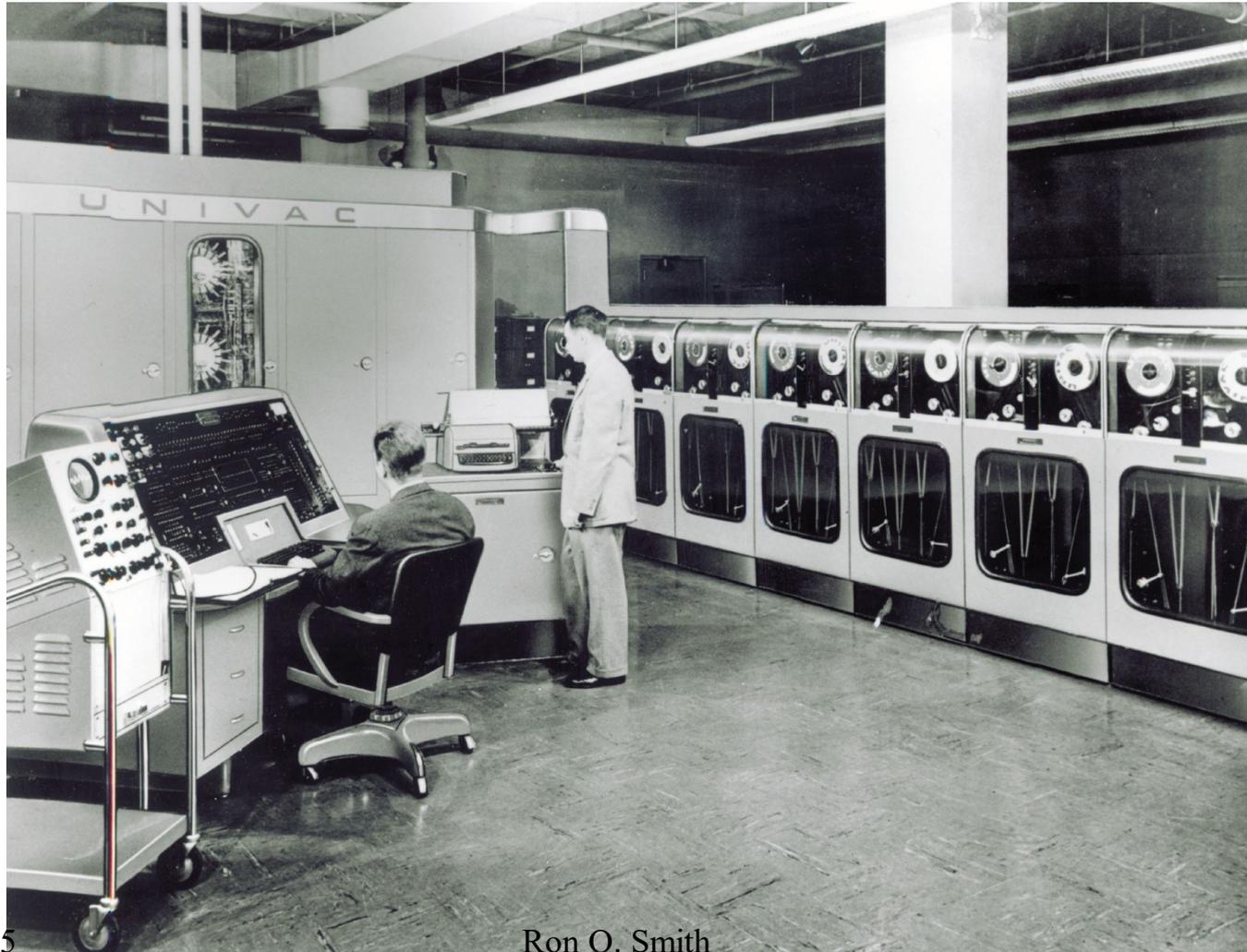
1903 Detroit, Michigan

Ron Q. Smith

Large Scale Digital Computing Starts with ENIAC



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.**



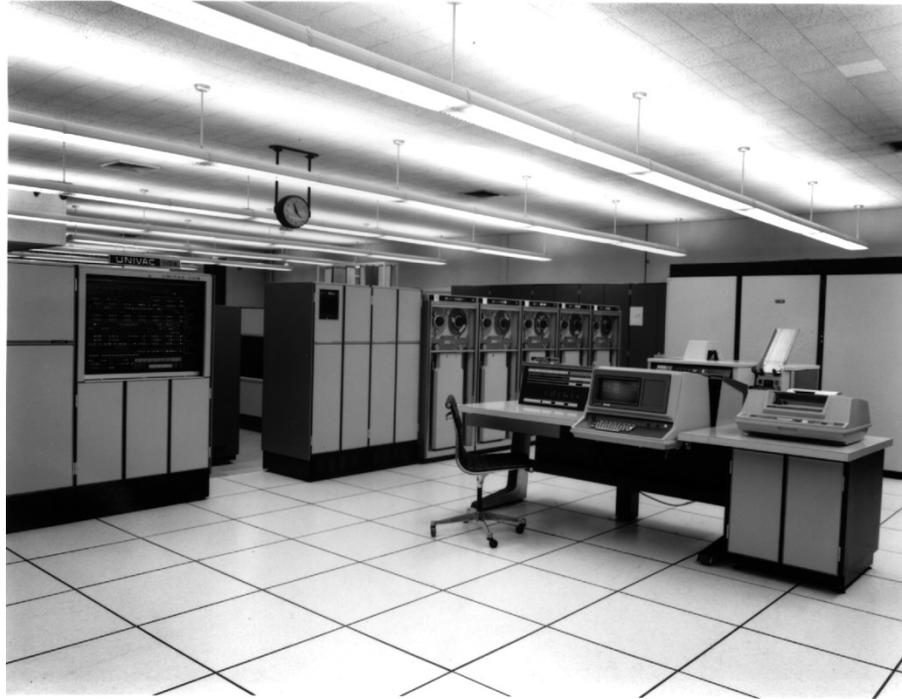
Datatron

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

Mainframe Programming



Grace Hopper

- ALGOL and FORTRAN for Scientific
- COBOL Dominates Business
- 1100 Assembler for Real Time

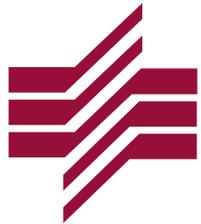
What Are They Used For?

- 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



Burroughs and Sperry Merge

- Burroughs Corporation makes offer in December 1985
- Merger Completes September 1986

What's In A Name?

The logo for UNISYS is displayed in a bold, red, sans-serif font. The letters are all uppercase, and the 'i' in 'UNISYS' has a red dot above it.

- 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

ClearPath

Platform Investment Focus

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



Commitment

An IT Legacy Slide Set

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unisys

{Editor's Notes:

1. **Ron Q. Smith** retired from Unisys, Roseville MN as a Unisys Fellow – he was a member of the Club's Legacy Committee.
2. **Lowell Benson** retired from Unisys, Eagan MN as a Senior Staff Systems Engineer – he was co-chair of the Legacy Committee.
3. These slides are from the commercial business aspects of Unisys, independent of the defense business aspects that were sold to Loral, then Lockheed Martin. }