

Chapter 0

Programming and Computer Software

Logical equivalence of hardware and software

0.1 Application software and software development.

0.1.1 Software Engineering

0.1.2 Programming Languages

0.1.3 Compilers, Interpreters, and IDEs

0.2 Operating Systems

0.2.1 Functions of the Operating System

0.2.2 Memory Management and Virtual Memory



Figure 0-1
Grace Murray Hopper,
about 1946
U.S. Navy Bureau of Ordinance



0.2.3 Process Dispatching

0.2.4 Interrupts and Concurrent Operation

0.2.5 Hardware Support and Privileged Instructions

0.2.6 File Management

0.2.7 Limits on Throughput

0.3 Virtualization

0.4 Database Management Systems

0.5 Summary

0.6 References

