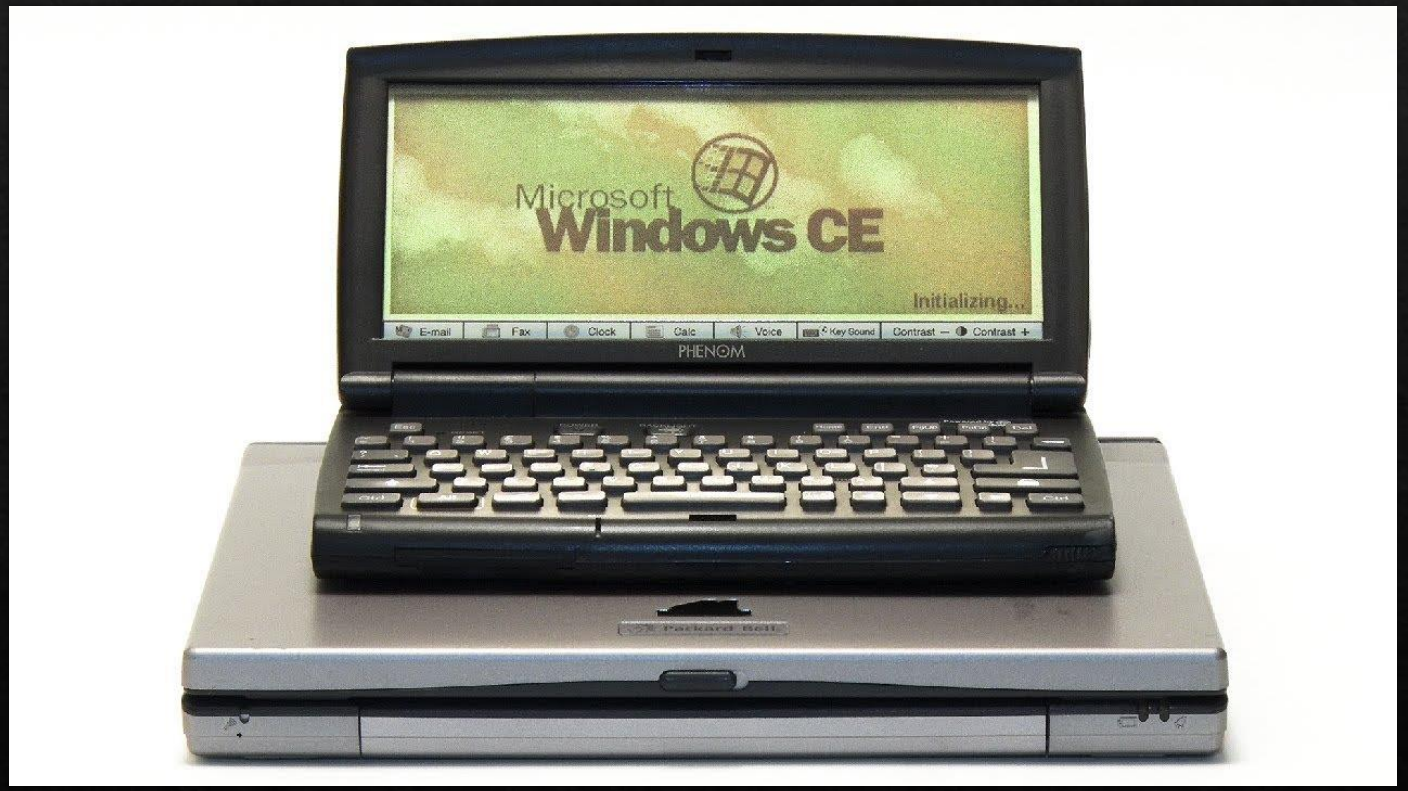

Operating
Systems

Windows CE


Microsoft
Windows CE
Initializing...
E-mail
Fax
Clock
Calc
Voice
Key Sound
Contrast –
Contrast +
PHENOM

Operating System Configurations

- Handheld Professional PC (H/PC Pro) and Handheld PC (H/PC) are sub-notebook class devices equipped with keyboard, mouse, full-size VGA display, PC Card slot, and USB port. Some manufacturers include a voice recorder and text input. Available memory is larger than 16 MB RAM. Pocket versions of Word, Excel, PowerPoint, Access, Internet Explorer, and Outlook reside in the ROM.
- Pocket PC (P/PC) is a handheld or palm-sized computer, featuring built-in Voice recorder, MP3 player, and text input. Typical memory footprints are 8 to 32 MB RAM and 2 to 8 MB ROM. Simple PIM applications are preinstalled in ROM. Since Version 3.0, pocket versions of the office tools and the Internet Explorer are available too. This class was formerly referred to as Palmheld PC.
- Automotive PC (Auto/PC) provides a speech interface, CD-ROM for data and music, USB, infrared, AM/FM tuner with preamplifier, a small color screen, 8 MB ROM, and 8 MB RAM. Auto/PC applications are PIM, navigation, maintenance, diagnostics, and entertainment.

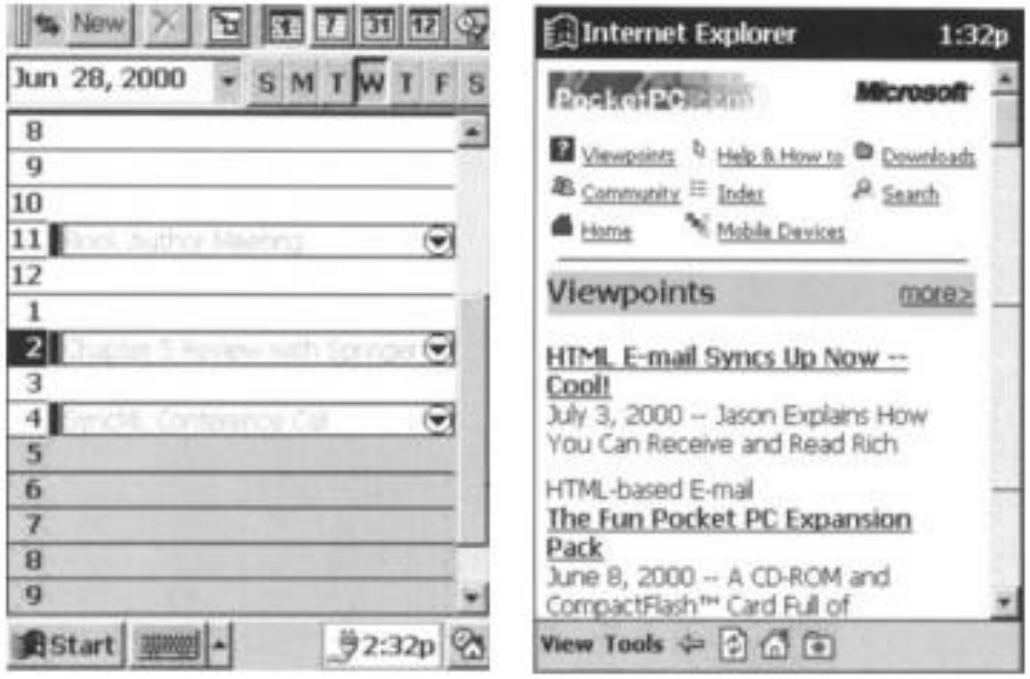
Memory Management

Windows CE makes no conceptual difference between the various kinds of storage. Mass storage devices like flash memory cards or hard disk drivers, ROM or RAM are all treated just the same way.

All these memory resources are managed consistently by Windows CE and can be accessed through the Win32 API.

User Interface

Figure 7.3: User Interface of Version 2.11 (left) vs. Version 3.0 (right)

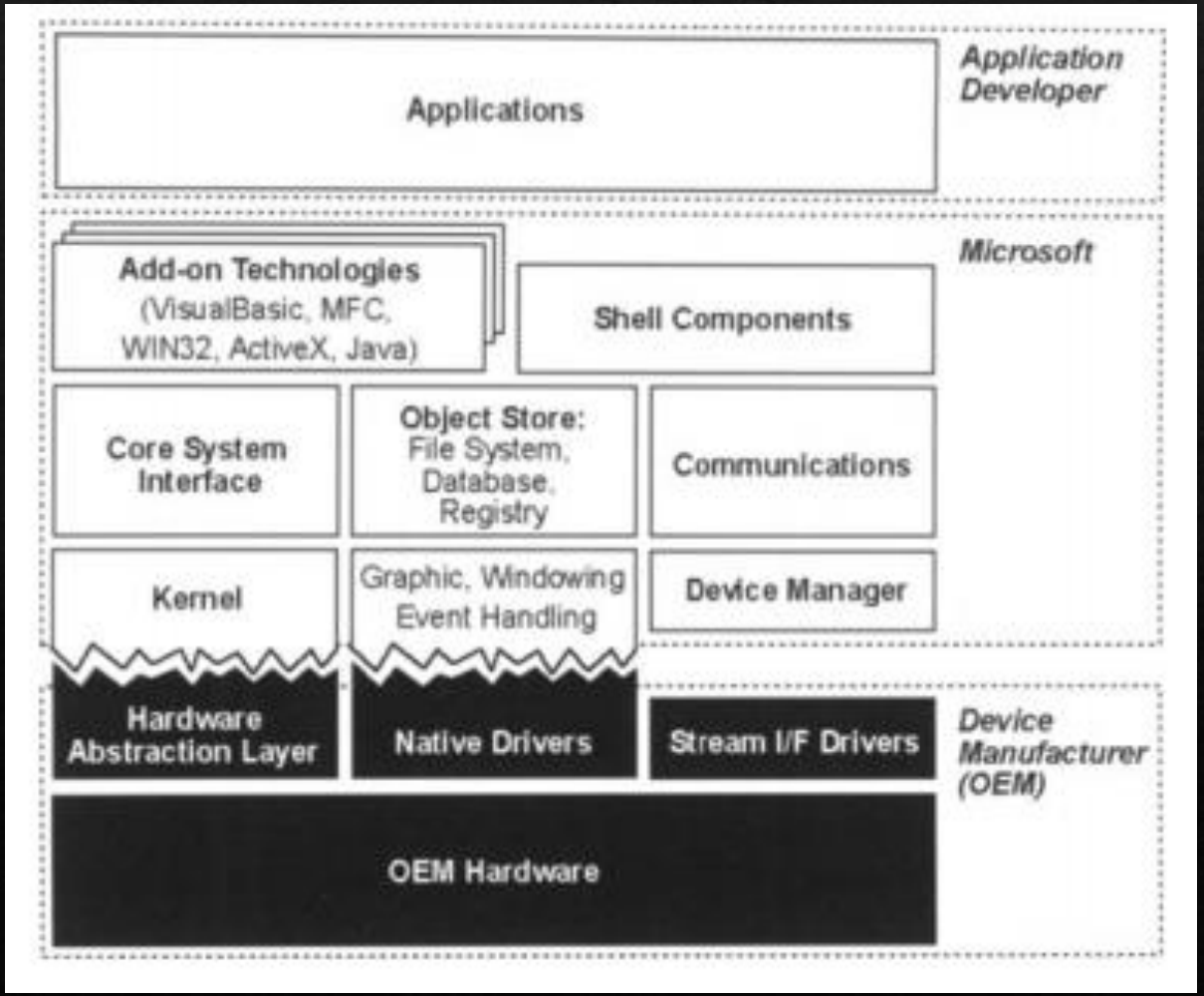


Platform-Builder - Creating Custom OS

When applying Windows CE on a particular device, the hardware Configurations manufacturer needs to configure and build a customized version of the operating system.

Depending on the capabilities of his device, different operating system components will be induced.

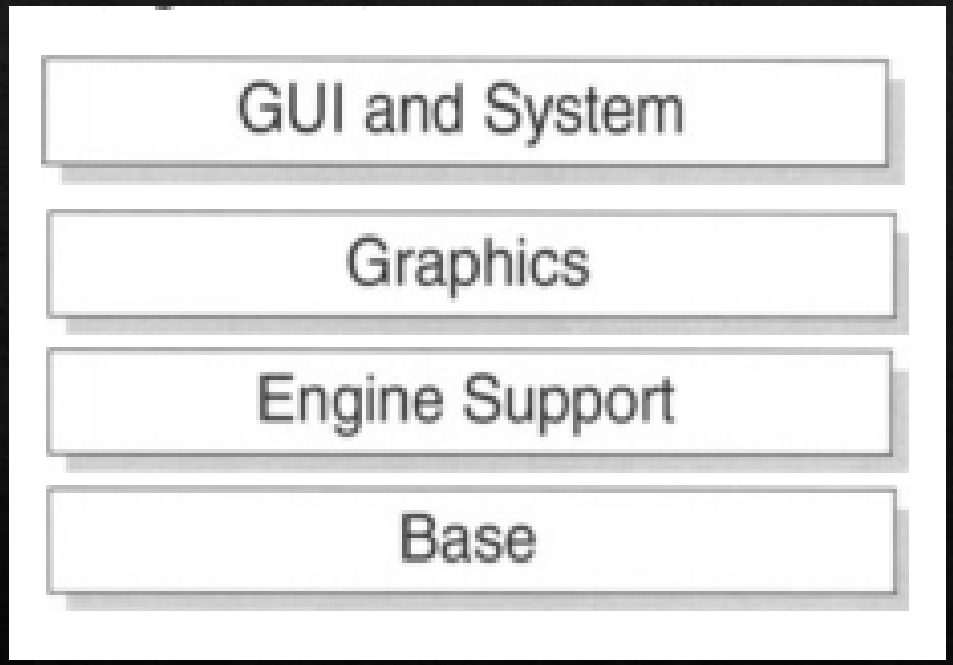
Platform-Builder - Creating Custom OS



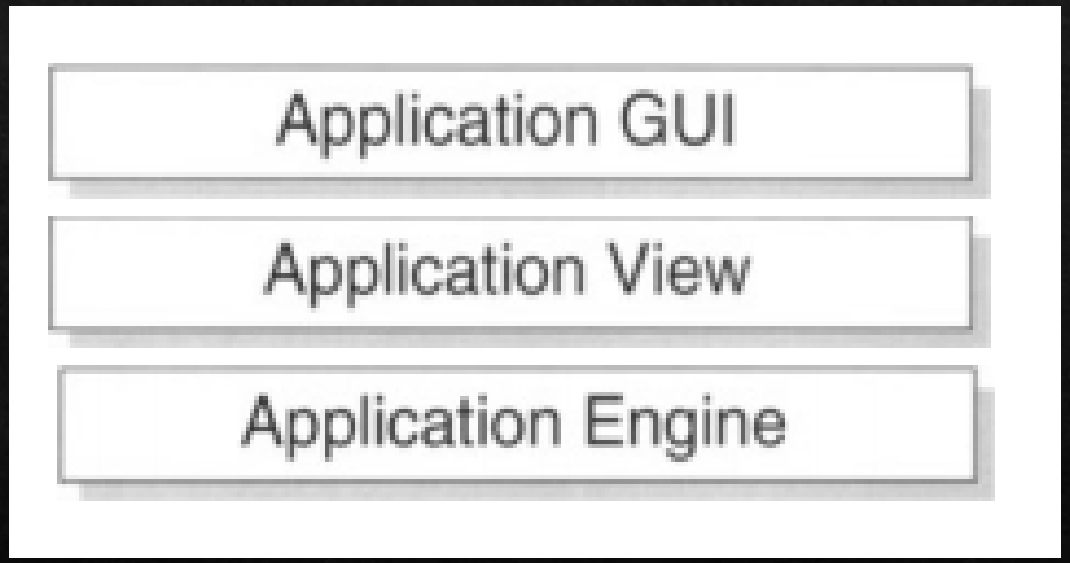
Symbian EPOC

EPOC, also known as EPOC32, is areal-time, multitasking, preemptive, 32-bit operating system written using C++ with an object-oriented design.

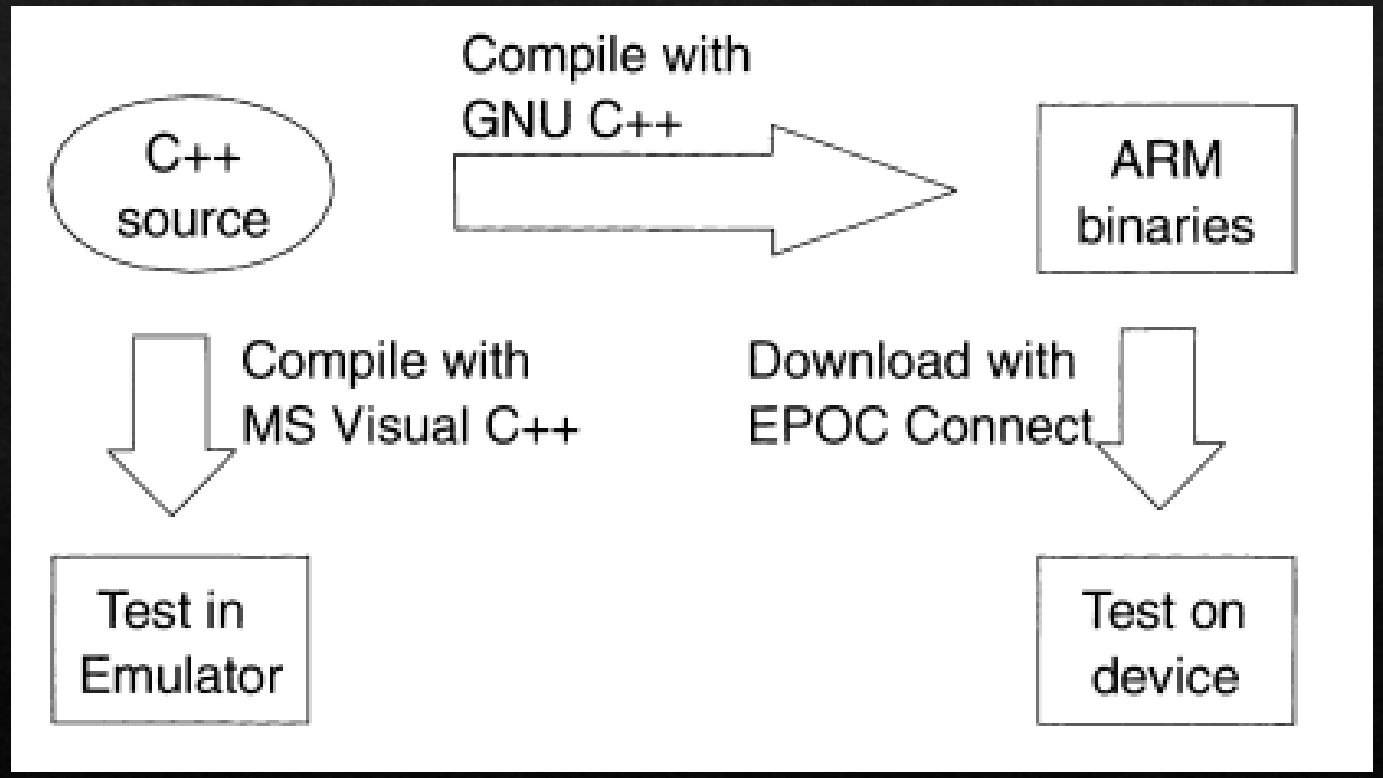
Operating System Architecture



Application Architecture



Developing Applications



vs

JAVA Card

Windows for Smart Cords