



Comp 388 / Comp 422 Symbian....and the Evolution of Mobile Device OSs

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The Exciting World of Mobile Operating Systems



- Not New...from the 1980s at least
 - Portability – since the transistor radio (1960s)
- Many failed attempts
 - By leading technology companies
- The way of the future
 - Multiple hardware and software companies



Mobile OS Market Share



Worldwide: Smartphone Sales to End Users by Operating System, 2008
(Thousands of Units)

Company	Market Share		Market Share 2007	Growth 2007-2008 (%)
	2008 Sales	2008 (%)		
Symbian	72,933.5	52.4	77,684.0	63.5
Research In Motion	23,149.0	16.6	11,767.7	9.6
Microsoft Windows Mobile	16,498.1	11.8	14,698.0	12.0
Mac OS X	11,417.5	8.2	3,302.6	2.7
Linux	11,262.9	8.1	11,756.7	9.6
Palm OS	2,507.2	1.8	1,762.7	1.4
Other OSs	1,519.7	1.1	1,344.0	1.1
Total	139,287.9	100.0	122,315.6	100.0

Source: Gartner Group



Early Uses of Psion



- First successful mobile device operating system
- Nokia, Motorola, Ericsson, Psion backing
- No phone or network access (standalone)
- Portability

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Symbian Summary



History

- 1980: Psion founded
 - EPOC OS
 - Psion handhelds
- “Organizer”
 - Phone numbers, addresses, schedule
- 1998: Symbian founded

Today

- Over 220 million phones produced to date
- Eight manufacturers
- Multi versions
 - S60, UIQ, MOAP(S)
- Symbian Foundation
 - Open Source

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Adding Online Mobility



Motorola introduces wireless email (pen based)

- Marco
- Envoy
 - 1 Meg RAM
- Mid 90s. Sold 50,000

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When Did the PDA Really Take Off?



Palm

- Introduced
 - Touch Screen / Stylus
 - Phone Integration



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