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

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Symbian</td>
<td>22,933.5</td>
<td>18,456.4</td>
<td>22%</td>
</tr>
<tr>
<td>Research 3 Motion</td>
<td>25,082.3</td>
<td>23,491.0</td>
<td>6%</td>
</tr>
<tr>
<td>Microsoft Windows Mobile</td>
<td>18,491.1</td>
<td>16,439.0</td>
<td>12%</td>
</tr>
<tr>
<td>Mac OS 9</td>
<td>11,917.5</td>
<td>9,933.6</td>
<td>17%</td>
</tr>
<tr>
<td>Linux</td>
<td>11,282.9</td>
<td>9,813.7</td>
<td>15%</td>
</tr>
<tr>
<td>Palm OS</td>
<td>15,072.2</td>
<td>15,761.7</td>
<td>4%</td>
</tr>
<tr>
<td>Other OS</td>
<td>4,961.7</td>
<td>4,000.0</td>
<td>11%</td>
</tr>
<tr>
<td>Total</td>
<td>115,287.9</td>
<td>109,815.6</td>
<td>15%</td>
</tr>
</tbody>
</table>

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

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

Adding Online Mobility

Motorola introduces wireless email (pen based)
- Marco
- Envoy
  - 1 Meg RAM
- Mid 90s. Sold 50,000
When Did the PDA Really Take Off?

Palm
  • Introduced
    – Touch Screen / Stylus
    – Phone Integration