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2.2 Symbian OS design overview

Psion's Organiser, launched in 1984, was based on an 8-bit processor and supported only built-in applications [Sales, 2005]. This system only had a bootstrap loader and a small collection of system services as the kernel. The 16-bit EPOC kernel was tied to the Intel 8086 architecture and supported expansion. This meant that the OS opened itself up to any number of software developers. This openness makes a risk that a poorly developed application could crash other applications or even the whole system. A sophisticated memory management could solve this problem to some degree. The 16-bit EPOC kernel had to address many of the requirements which are met by EKA2 today.

EPOC32, the 32-bit EPOC kernel was released in Psion's Series 5 PDA in 1997 [Sales, 2005]. Its kernel called 'EPOC32 Kernel Architecture 1' (EKA1) carried over the best features of the 16-bit EPOC kernel and fixed many significant issues. EKA1 was thoroughly 32-bit and did not have EPOC' 8086 style segmented memory architecture. Furthermore, the EKA1 kernel was designed from the beginning with hardware variety and evolution.

EKA1 supports event-driven programming very well, but there is no real-time guarantee in the kernel. The kernel itself was designed with robustness to hold a user's personal data as the primary goal. Since Symbian OS began to process needs of mobile phones, it could apparently provide real-time guarantees. However, EKA1's module boundaries were not always drawn in the right place to make the hardware porting easy [Sales, 2005]. For example, some hardware ports only need a device driver change rather than the whole kernel needs to be rebuilt.

The EPOC Kernel Architecture 2 (EKA2) was introduced in 1998 to solve this problem. EKA2 is the second edition of Symbian's 32-bit kernel architecture [Sales, 2005]. EKA2 also supports sufficiently-fast real time response making it possible to build a single core phone around it. The single core phone is a single processor core executing both user applications and the signaling stack.

Symbian OS evolved from Psion Software's EPOC. Like many other desktop operation systems, it has features such as multithreading, pre-emptive multitasking, and memory management [Symbian OS, 2008]. Symbian OS is one of the global industry standard operating systems for smartphones, and is licensed to the world's leading handset manufacturers. Symbian OS supports a wide range of device categories with several different user interfaces, including Nokia series 40, Nokia series 60, Nokia Series 80, UIQ etc.

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Muat Turun Al Quran Dan Terjemahan Ayat Bersyukur Alkitab

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