

Stýrikerfi – Verkefni 2

Explain the POSIX standard that can be found at <http://pubs.opengroup.org/onlinepubs/9699919799/> by covering briefly:

1)

a) Which standardisation bodies (more than one involved!) standardised POSIX.

IEEE, The Open Group, ISO/IEC. Vinna saman undir Austin Group

b) What is the name and/or number (e.g. “ISO 9000-2017” would be the name/number and year) and year of the latest standard.

IEEE Std 1003.1™-2017.

c) And what POSIX is about in general.

POSIX is short for portable operating system interface for Unix, it is a set of IEEE and ISO standards that define how Unix operating system operate together and command structure.

2) **What each of the volumes**

a) “Base Definitions”,

Describes definition standards for structure for files and directories and how applications shall use them, file format notation, coded character sets and conforming implementations have to support at least one, locale which is the subset of users environment that depends on language and cultural conventions, environment variables, regular expression definitions, general terminal interface, argument syntax of standard utilities and terminology used in POSIX.

b) “System Interfaces”

This volume describes the interfaces offered to application programs by POSIX-conformant systems.

c) “Shell & Utilities”

This volume describes the commands and utilities which can be used by application programs by POSIX-conformant systems.

3) Do some research on your own (and name the source you used) to give

- a) The name of one example operating systems that is certified to be fully POSIX compliant.**

macOS version 14.0 Sonoma is for example fully certified, here you can see list of certified <https://www.opengroup.org/openbrand/register/index2.html>

- b) The name of one example operating systems that is mostly POSIX compliant.**

Android for example, found on Wiki
https://en.wikipedia.org/wiki/POSIX#Mostly_POSIX-compliant

References:

<https://pubs.opengroup.org/onlinepubs/9699919799/>
<https://en.wikipedia.org/wiki/POSIX>
<https://www.computerhope.com/jargon/p/posix.htm>
<https://www.usenix.org/legacy/publications/login/standards/45.POSIX1.html>