

NexGenWEB

Embedded HTTP client & server

- Fully written in ANSI C
- Highly optimized (~12 KB)
- Reentrant & Romable
- Client & server (1.0/1.1)
- VFS compiler for HTML
- CGI, SSI support
- Fast and reliable
- Polling or RTOS mode
- Support of NexGenSSL
- No compiler dependencies
- Fully tested
- Source code, royalty-free

Optional protocols:

- NAPT
- SNMP v1/v2/v3
- Dual TCP/IP v4/v6
- POP3/SMTP/IMAP4
- PPPv6
- DHCP server (v4)
- FTP client & server
- SSL
- RTP/RTSP

BUILT FROM THE GROUND UP

NexGenWEB was designed from the ground up to satisfy both embedded constraints and OEM specificities. It is compact, highly portable and can be easily extended to add new services. NexGenWEB can be used over any TCP/IP stack (with BSD socket interface).

ARCHITECTURE

Unlike usual Internet HTTP servers, embedded ones do not have to deal with the publication of very large amounts of static data (e.g. HTML pages). Due to the fact that they are embedded, they need to deal with certain constraints, e.g. few memory resources or the lack of an underlying file system. The context in which they are used is closely linked with the nature of the embedded component they are associated with. In other words, embedded HTTP servers can only be used under certain application dependent circumstances. An embedded server can typically publish dynamically generated outputs of some data acquisition process, offer remote control, and some network management-like features. An embedded server can for instance be used to publish the output of a video camera to Web browsers, or to check the status of a router and statistics via portable HTML pages embedded within the router.

PORTABILITY

NexGenWEB can be used either in polling or RTOS mode. All dependencies have been isolated in a porting layer called NexGenOS. By using a such architecture the stack is totally portable in few days. NexGenOS includes a wrapper of the most popular RTOS including Nucleus, pSOS, VxWorks, Linux, DOS, Win32k, OS20/21, EmbOS, OSE, Neutrino, QNX4, RTC, RTKernel, RTXC, µC/OS, and virtually any others RTOS. There are also numerous Ethernet drivers included.

SUPPORTED PROCESSORS & RTOS

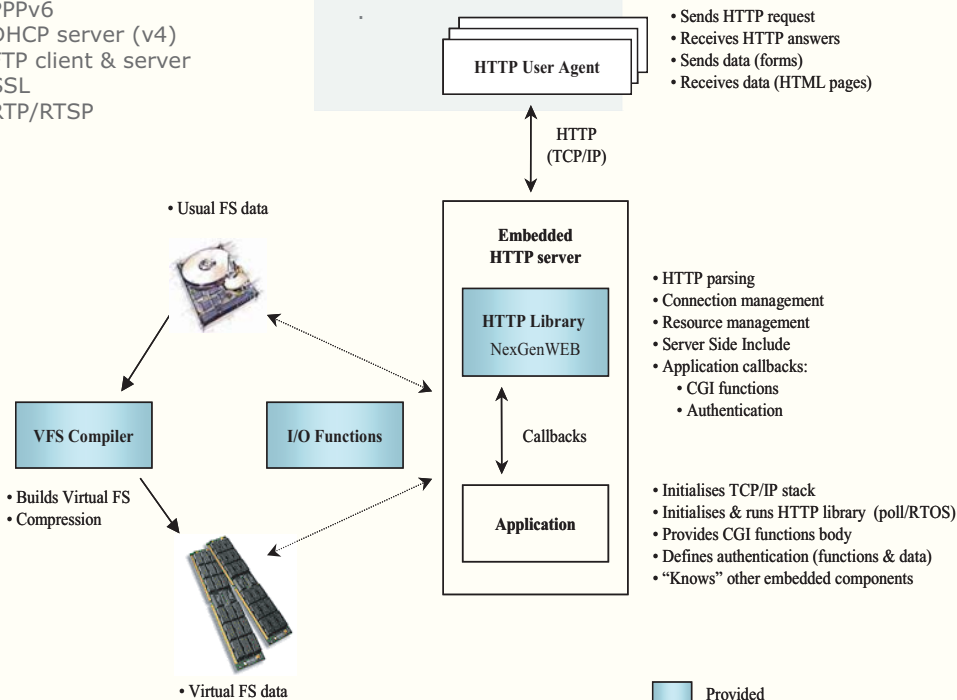
Most of the 16-32 -64 bit processors are supported. x86, SH-series, ARM, 68K, Coldfire, ARC, M16/32C, C166, StrongARM, MIPS, ST20, ST40, DSP, PowerPC, 320C5416. A new port takes a couple of days to develop.

TECHNICAL SUPPORT

6 months free of charge. Extended annual support available. Specific development or porting are possible. Please call us.

LICENSING

Source code, per-projet, royalty-free



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