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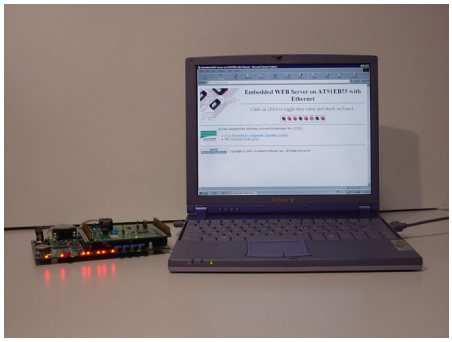

Embedded Web Server on AT91EB55

The advent of Open Source Software has been a major event in the computer industry. In particular, the GNU software development tools (GCC compilers, GDB debugger) have made possible the development of open source software systems and applications including Linux, Apache, Mozilla, Perl, Gnome, KDE, etc., that have become successful worldwide.

The Open Source Software evolution model has resulted in a fairly high rate of innovation for software with richer functionality and higher quality. The time is now right for the embedded systems market to benefit from the open source movement, for which Linux is the leader in the operating system area.

However, **Linux is the not the right operating system for every need**. In particular, the embedded systems world is definitely a market where one size does not fit all. For deeply embedded applications where every kilobyte of memory counts, the functionally rich and megabyte-sized standard Linux configurations are not appropriate.

Driven by the requirements of the embedded systems market, Red Hat Inc., one of the leaders of the open source community, has developed the EL/IX interface specifications. Written as subsets of the Linux Application Programming Interface, they provide standardized interfaces for embedded devices over a wide range of operating systems, including Linux and eCos. The latter is an open source real time operating system developed by Red Hat Inc., a key feature of which is its high level of configurability. It can be downsized to a minimum of 32Kbytes memory footprint, while its enhanced versions fit the needs of fully connected Internet appliances. By running a selected level of EL/IX services, embedded systems developers can tune their target system to their needs.

- **Royalty free**
- **Full source code available**
- **State of the art technology**
- **Real Time**
- **Small memory footprint**
- **Linux and Windows development environment**
- **Compliant with standards (ISO C and ISO 9945)**
- **Full support from Groupe Silicomp**

Some issues that arise when adopting open source technology are: Where do I get support? How can I have extensions made? How do I make sure the evolution of the open source technology will not affect the reliability of my software?

Groupe Silicomp provides a global answer to these questions with its EL/IX (and eCos) development and support offering.

Groupe Silicomp can develop and support custom EL/IX and eCos BSPs (Board Support Packages) specifically tuned to your hardware and software requirements. In this way, the stability of your embedded system is assured, and at the same time you can take advantage of the latest contributed developments of these technologies. With this offering you can enjoy both the benefits of Open Source technologies (royalty free, full source code availability, freedom of choice), and those of commercial products (engineering services and support availability).

More information can be found at
http://www.ri.silicomp.com/elix
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