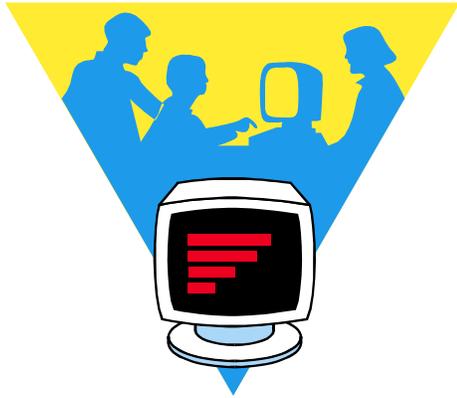


## CSMISS IT Seminar Series



# *Real-Time Linux*

*by*

***Dr. C. Douglass Locke,***  
*Vice President of*  
*Technology,*  
*TimeSys Corporation*

***Tuesday,***  
***September 24, 2002***  
***12:00 – 1:00 P.M.***  
***Bldg. 238-543***



The use of Linux in embedded, real-time systems has been rapidly accelerating over the past several years. It is well-known that Linux has some critical shortcomings in terms of predictable performance. This talk will start with the key operating system requirements for real-time systems and the three basic approaches to meeting them with Linux. Their implications for real-time application architecture will be discussed, and a brief discussion of the GNU General Public License (the license governing Linux) will be included.

**Dr. C. Douglass Locke**, Vice President of Technology of TimeSys Corporation, has spent more than 35 years intimately involved in the specification, architecture, design, and implementation of real-time systems, spanning a wide range of applications, including industrial control, spacecraft control (both ground-based and flight), avionics, command and control, and automotive systems. His technical interests cover real-time systems architecture, design, implementation, analysis, standards, operating systems, and languages. Locke has served, and continues to serve, on various standardization committees related to real-time, including POSIX, Real-Time CORBA, Real-Time UML, and the Real-Time Specification for Java. He has a B.A. in Physics, and a Ph.D in Computer Science, with a dissertation on Real-Time Scheduling.

**CSMISS IT Seminar Series:**  
**Highlighting information technology,**  
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