

# EDGE Debugger

Most of your development time is spent debugging your code, so making the most efficient use of this time is critical to meeting your schedule. Obviously, you need basic control of your target: download, run, stop, and step-through code at source level.

That may be enough to find and fix basic bugs, but if you are going to meet your deadline, you need tools that are going to help you more. Advanced scripting, I/O viewing and OS awareness are some of the tools you need for today's complex applications and demanding schedules.

The EDGE Debugger is based on the Eclipse framework, so it's robust and familiar to the user. All of the base features that you need are there, but that's only a fraction of the things that you can do with the debugger. With EDGE Debugger, you can connect to an instruction set simulator or JTAG hardware. EDGE Debugger also has a host of advanced features that you will wonder how you ever did without.

## Advanced Features

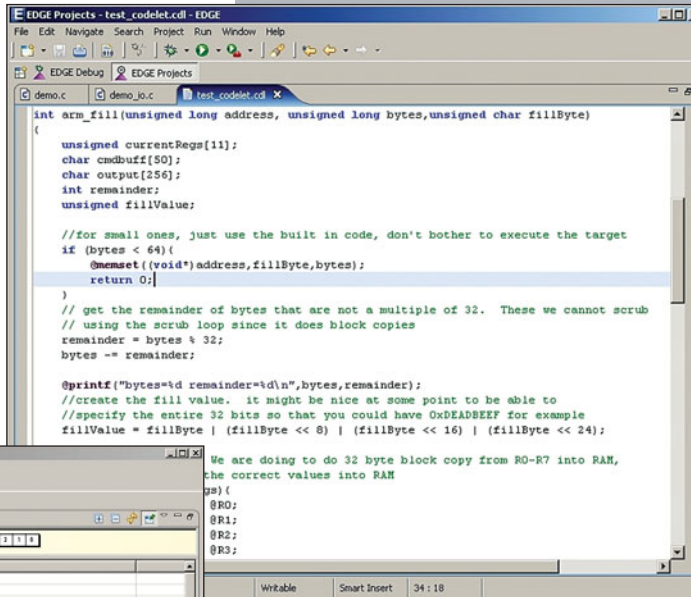
### Codelets

Need to create advanced conditional breakpoints, or write regression tests for your code? Codelets provide the power to do both through the built-in C-like scripting language.

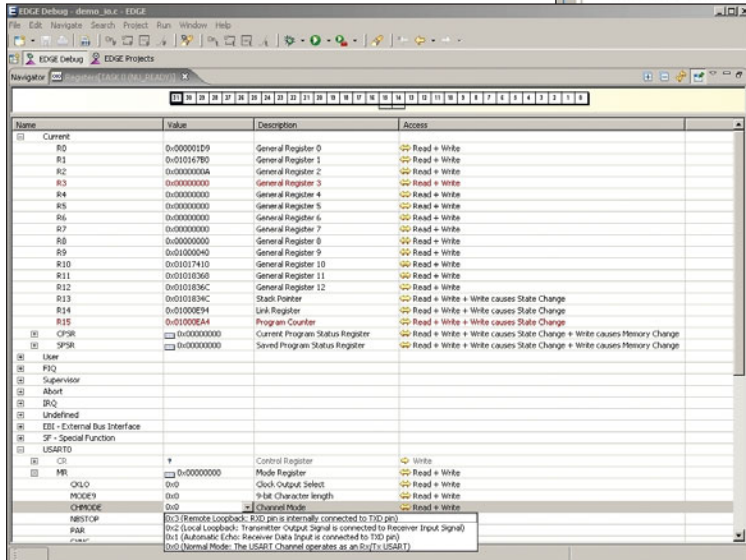
With a codelet, you can:

- Automate complex startup procedures
- Insert target code without recompiling
- Watch information from different sources
- Perform regression testing on the system
- Make informative tool tips

We've also built in a powerful Codelet Composer™ feature that makes it easy to load built-in codelets or codelets that you wrote for your own needs.



### Expanded views of registers in EDGE Debugger



### Channel Viewers

Pipe information out of your application into EDGE Debugger, and view it in an intuitive format.

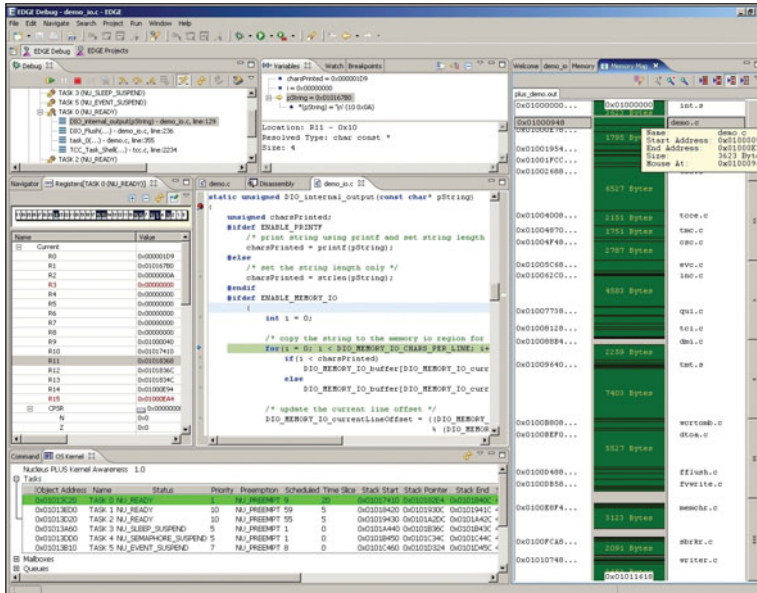
Channel Viewers are similar to named pipes in UNIX, and let you abstract and manage data flow between your application and the debugger over protocols like TCP/IP, serial, USB, GSM, and GPRS.

We've built in Channel Viewers for the following data types:

- Text
- Bitmaps (jpeg, gif)
- Audio (wav, mp3)
- Video (mpeg4)
- Strip Chart
- VT-100



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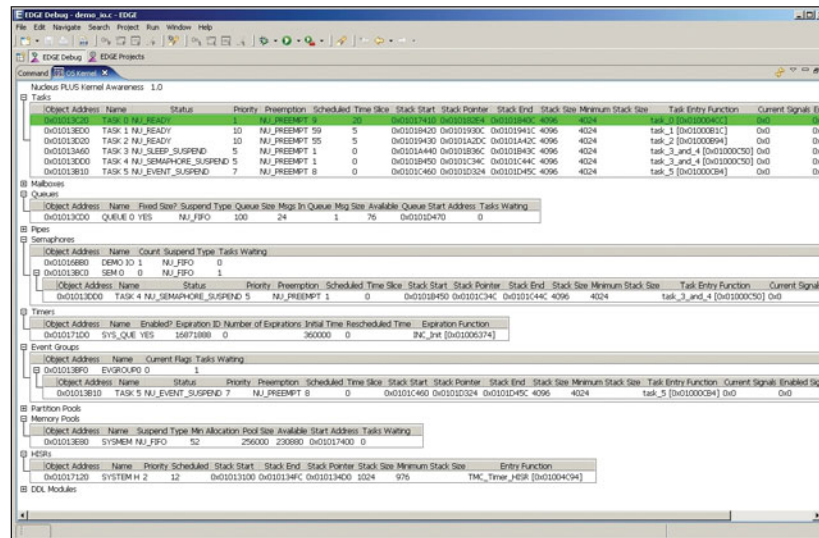
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## Configurable Register View

Tired of trying to monitor your peripheral registers in a memory window? EDGE Debugger lets you add these register banks to the register view, complete with documenting each bit so it's easy to see what's going on with your system.

## Kernel Awareness

The EDGE Debugger can show you detailed views of what is going on with the underlying operating system. EDGE Debugger comes with the components to turn on kernel awareness for the Nucleus OS, so you can see semaphores, pipes, messages and more, right out of the box.



Expanded views of EDGE Debugger kernel objects



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