## Red Suite ${ }^{\text {m" }} 3$

RED SUITE 3
Red Suite is a highly integrated software develop-

Development tools for ARM ${ }^{\circledR}$ based Microcontrollers
Professional tools for less than \$1000
ment environment for ARMbased Microcontrollers, which includes all the tools necessary to develop high quality software solutions in a timely and cost effective fashion.

The Red Suite IDE is based on the latest version of Eclipse with many ease-ofuse and Microcontroller specific enhancements. It also features the industry standard GNU toolchain allowing us to provide professional quality tools at low cost.


KEY BENEFITS

- Sophisticated Eclipse-based Integrated Development Environment.
- Device-specific support for more than 200 microcontrollers from NXP and Luminary Micro
- Unique Red Trace capabilities giving unprecedented visibility into microcontroller execution.
- Wizards to create microcontroller programming frameworks, fast.
- Peripherals views of all supported microcontrollers.
- Full support for both JTAG and low-pin count SWD debugging via Red Probe and LPC-Link
- No-fuss, single install for complete product.
- Includes 1-year of email-based support with each purchased copy of the tools.
- Fully functional 90-day evaluation.
- Available for Windows XP and Windows Vista, Windows 7, 32-bit and 64-bit
- Discounts available:20\% for 2-5 copies, $25 \%$ for $6-10,30 \%$ for $11+$
- $10 \%$ Discount for users of LPCXpresso IDE (Contact Code Red for details)


## Features

## PERIPHERAL VIEWS

The peripheral viewer provides complete visibility of all registers and bit-fields in all target peripherals in a simple tree-structured display.

RED TRACE
When used with Red
Probe on Cortex-M3
based Microcontrol-
lers, the integrated
Red Trace functionality gives the developer an unprecedented level of visibility into what is


## Peripheral View

The Red Suite Integrated Development Environment (IDE) provides a C/C++ programming environment second to none, with syntax-coloring, source formatting, function folding, online and offline integrated help, extensive project management automation and integrated source repository support (CVS integrated or Subversion via download).
Features include:

- Wizards create projects for all supported microcontrollers
- Automatic linker script generation including support for microcontroller memory maps
- Direct download to flash when debugging
- Inbuilt Flash programmer
- Built-in datasheet browser
really happening on
the target device.
Unlike traditional trace
solutions, Red Trace gathers trace data non
-intrusively while the
target application
continues to run at full
speed.

| [10 Red Trace $\mathbb{Z}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Profile (I) Int Statistics IntTrace |  | FTisappTrace |  | Oo' Datawatch trace | Q Host Strings | Info |  |  |  |  |  |  |  |
| Function | Cumula... | C | Cur... | . Coverage \% | First | Last | Since | Avg Be... | Start | End | 人 | Performa... | Value |
| SysTickIntHandler | 42 | 0\% | 0\% | 22\% (26/118) | 381.994 ms | 7.964s | 186.450 ms | 180.521ms | 0x2818 | 0x2905 |  | Time | 8.150 s |
| dequeue_packet | 7 | 0\% | 0\% | 21\% (6/28) | 28.672 ms | 7.4715 | 679.037 ms | 1.063 s | 0x3fc8 | $0 \times 4001$ |  | Instructions | 222,926,099 |
| \|wIPEthernetIntHandler | 18 | 0\% | 0\% | $11 \%(14 / 121)$ | 168.674 ms | 7.904s | 246.252 ms | 429.744ms | 0x9920 | $0 \times 9 \mathrm{al} 3$ |  | Multi-cycle | 62,932,736 |
| RIT128×96x4ImageDraw | + 56 | 0\% | 0\% | 7\%(11/141) | 275.498 ms | 8.139 s | 11.059 ms | 140.424 ms | 0xale4 | 0xa2ff |  | Interrupt | 60,672 $121,532,672$ |
| EthernetIntStatus | 10 | 0\% | 0\% | 20\% (8/40) | 318.670 ms | 7.981s | 169.083 ms | 766.257 ms | 0xa6fc | 0xa74d |  | Load;store Folded | $\begin{aligned} & 121,532,672 \\ & 14.080 \end{aligned}$ |
| GPIOBaseValid | 328 | 0\% | 0\% | 38\% (50/130) | 19.579 ms | 8.111 s | 38.830 ms | 24.670 ms | 0xa83c | 0xa941 |  | Sleep count | 78,080 |
| GPIOPinRead | 22 | 0\% | 0\% | 38\% (12/31) | 178.668 ms | 7.909 s | 241.337 ms | 351.378 ms | 0xad34 | 0xad73 |  | Cycles | 407,516,179 |
| GPIOPinWrite | 239 | 0\% | 0\% | 70\% (24/34) | 49.234 ms | 8.132 s | 18.022 ms | 33.820 ms | 0xad74 | Oxadb9 |  |  |  |
| IntMasterDisable | 3 | 0\% | 0\% | 37\% (3)8) | 458.671 ms | 7.8315 | 318.833 ms | 2.458 s | 0xaf60 | 0xaf71 |  |  |  |
| <unknown> | 10 | 0\% | 0\% | 0\% (0/119) | 1.751 s | 8.011s | 139.428 ms | 625.944 ms | $0 \times 0$ | Oxef |  |  |  |
| AudioMute | 11 | 0\% | 0\% | 5\% (2/35) | 1.808 s | 7.955s | 194.888 ms | 558.882 ms | 0xfc | $0 \times 143$ |  |  |  |
| Audiooff | 7 | 0\% | 0\% | 30\% ( $8 / 10$ ) | 1.7845 | 7.834s | 316.785 ms | 864.188 ms | $0 \times 178$ | $0 \times 18 \mathrm{~d}$ |  |  |  |
| EnetGetIPAddr | 1 | 0\% | 0\% | 33\% (1/3) | 1.898 s | 1.898 s | 6.252 s | 0.000 ns | 0×434 | 0x43b | $\checkmark$ |  |  |

REGISTER VIEW
A powerful processor-
register viewer is provided that gives access to all processors register and provides smart format-
ting for complex registers such as flags and status registers.


ARM7 Register View and Flags editor
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