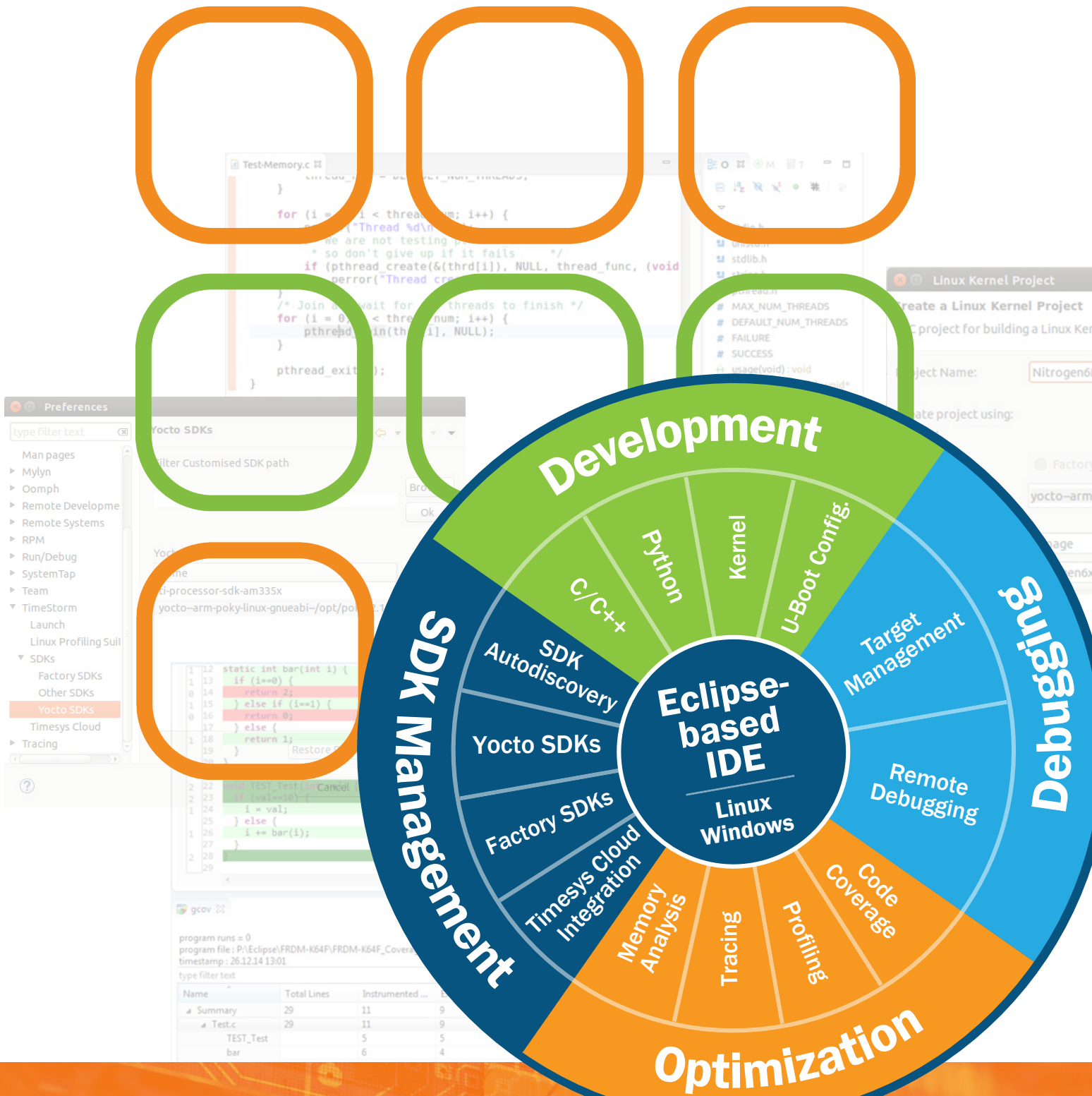


TimeStorm

Integrated Development Environment (IDE) —
A Powerful Suite of Integrated Tools for Embedded Linux





Timesys TimeStorm IDE

Embedded Linux Application and System Development — Ideal for engineers using Linux or Windows® OS development host

Timesys TimeStorm is a comprehensive Eclipse-based IDE for embedded Linux application and system-level development that runs on Linux or Windows® environments. From installing a Yocto Project or Timesys Factory-built SDK, to managing and sharing project code, TimeStorm is a powerful suite of integrated tools designed to optimize the application developer's workflow and make it easy to code, debug and maintain complex applications.

Benefit from Using TimeStorm

With Timesys TimeStorm, engineers can focus on developing their project. Designed to cater to the unique needs of embedded engineers, TimeStorm gives engineers the flexibility they need to be productive, enabling them to get their product to market sooner, thus reducing the overall cost of development.

Jump Start

TimeStorm can be used on Windows® OS and Linux development hosts, enabling you to stay with your development environment of choice.

- Includes Timesys-provided Windows® installer for easy set up
- Auto-recognizes available cross-development SDKs that are installed on your host and makes them available for development
- Provides wizards to guide and support you through the development process, making it easy for you to get started if you're new to embedded Linux software development
- Integrated with Timesys Support portal, so you can submit support requests from within the IDE

Streamline

TimeStorm provides a consistent environment for application-level and system-level development, enabling development teams to streamline their product development workflow.

- Provides a consistent environment for application and system-level development, eliminating the costs associated with additional learning
- Eliminates the need for another IDE — same development process regardless of SDK or hardware
- Enables you to leverage both Yocto Project and Timesys Factory built software development kits (SDKs) in your TimeStorm project
- Enables easy management and sharing of project code and easy collaboration with other developers on the team — dedicated wizard to import project code from a GIT repository

Simplify

TimeStorm enables developers to reduce the amount of time spent executing development tasks.

- Define how to communicate with the target once, and re-use that information throughout TimeStorm
- Easily switch project toolchains and SDKs
- Manage multiple projects in one interface — from U-Boot development/kernel development/application development — to debugging/optimization

Accelerate

Built on the Eclipse IDE and optimized for embedded Linux development, TimeStorm provides a development platform that's already familiar to developers.

- Includes features such as a code editor with syntax highlighting, code navigation and bookmarks
- Integrated development environment enables use of one tool for profiling and tracing
- Integrated target management simplifies interactions with embedded hardware
- Code optimizer visualization makes it easier to see and edit your code
- Enables you to begin software development for your target immediately, even in advance of having access to the hardware
- Manages project makefile infrastructure for you, allowing easy integration with your in-house CI system

Value Across the Development Cycle

Timesys TimeStorm integrates multiple open source and Timesys-developed features to deliver all needed tools in one toolbox. It expertly handles embedded chores like multithreaded application debugging, kernel configuration, cross-compiling and remote debugging while including support for advanced features like profiling, tracing and memory leak detection. TimeStorm features include:



Development

- Fully featured C / C++ code editing tools for application development
- (NEW) Python code editing tools
- CMake project – Ideal solution when using CMake to manage your project build for multiple OS platforms; can import original Windows CMake projects
- (NEW) U-Boot bootloader configuration and development
- Linux kernel configuration and development
- Loadable kernel module (LKM) / device driver development
- Project wizards optimized for embedded Linux development – Offer a great starting point for application and system-level development
- Dedicated deployment configurations for application launching and driver launching – Integrated with SDK Manager and Target Manager



Debugging

- Target Management – Features support for communication protocols most commonly used in embedded Linux development (SSH, Telnet, Serial, SCP, FTP, NFS)
- Remote debugging with support for cross-debugging of all embedded components
- Remote debugging of Python code
- Support for several debug modes
- Support for several debuggers
- Support for simultaneous debugging of multiple applications and targets
- Dedicated debug session configuration – Allows fine control of the debug process
- Dedicated deployment configurations – Integrated with SDK Manager and Target Manager for application, Linux kernel and driver debugging



Optimization

- Gcov code coverage – Quickly identify which code never gets to run, and peek into execution of your code and identify unmet conditions which you can quickly address
- Gprof profiling tool – Analyze how your application is using CPU cycles, identify performance bottlenecks and unnecessary loops, etc
- OProfile profiling tool – Analyze unaltered application performance on the CPU, peek into application and system behavior and identify system-level performance bottlenecks
- Valgrind memory analysis – Find memory leaks in your code, analyze memory including cache and heap performance in your system, and optimize memory resource usage
- LTTng Tracing – Gain valuable insight into your embedded system’s behavior, identify and correct timing performance bottlenecks, and execute Linux kernel and user-space trace capture and analysis



SDK Management

- Seamless management and autodiscovery of Yocto Project, Timesys Factory-built or native SDKs
- Ability to add SDKs from other sources and to switch SDKs for an application project (examples: develop for an x86 host and switch to ARM cross toolchain when hardware is available; develop applications that run on multiple hardware devices)
- Integration with deployment configurations
- Integration with Target Manager for all project types



The Timesys Team

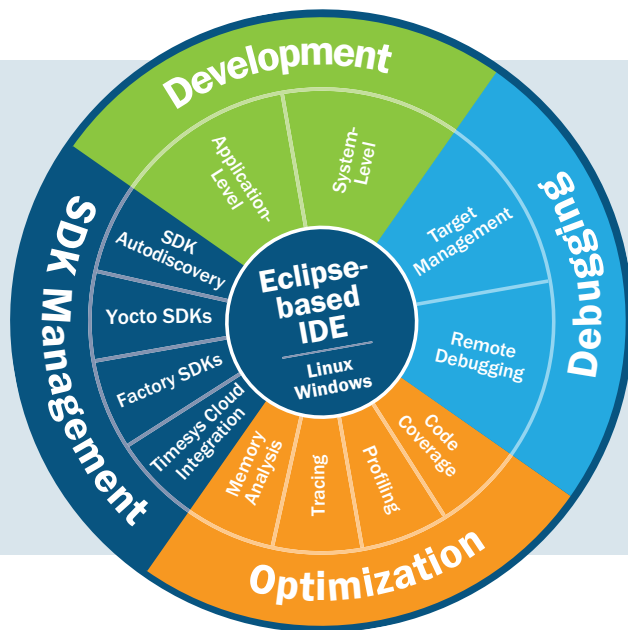
Behind every great product is a solid team.

As one of the original members of the Eclipse Board of Stewards and an early enabler of the Linux plug-in for Eclipse, we helped drive the creation of Linux application development. Consequently, when you purchase TimeStorm, you leverage our 20+ years of experience and industry leadership in embedded, open source technology to accelerate your embedded development.

TimeStorm Subscriptions

Timesys TimeStorm IDE subscriptions can be purchased on a per-seat development license basis, and floating licenses are available.

When you purchase TimeStorm, you'll have access to support for help with your development environment setup and to answer questions on how you can leverage the features of TimeStorm in your development process. In addition, your TimeStorm purchase will give you access to additional development resources including a detailed *TimeStorm Getting Started Guide*, videos and more.



See for yourself how Timesys TimeStorm makes application development easier and can help reduce development delays and risk.

Try TimeStorm free for 30 days. Sign up for a free LinuxLink account where you can generate a 30-day license to unlock all the features of TimeStorm – enabling you to try it for that period of time. In addition, with your free account, you can access TimeStorm “HowTo” documentation, videos and more. To sign up, simply visit <https://linuxlink.timesys.com/register>.

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