

RapiDaemons: Product description, licensing and purchasing options

RapiDaemons

RapiDaemons are software components that support the analysis of interference effects in the timing behavior of multicore systems.

Different types of RapiDaemons support the analysis of multicore interference in different ways. These are described in the *RapiDaemons Product brief*:

- Standard RapiDaemons.
- Advanced RapiDaemons.
- Tuneable RapiDaemons.

In addition to the RapiDaemons listed above, special tools generate configurations of RapiDaemons for specific use cases. These are described in the *RapiDaemons Product brief*:

- Discovery RapiDaemon tool.
- Surrogate RapiDaemon tool.

When you buy RapiDaemons, you receive:

- Binary versions of RapiDaemons that may be run on your multicore system:
 - Object files customized to work with your platform.
 - Header files used to define the interfaces for each RapiDaemon.
- Documentation describing RapiDaemons:
 - An overview of each RapiDaemon included in the library for your platform.

- A description of the purpose of each RapiDaemon and how to use it.
- Tests and expected results showing that RapiDaemons install correctly and perform their intended function on a representative platform.

Discovery and Surrogate RapiDaemon tools are delivered as binaries. These include documentation describing how to use these tools.

Licensing options

We have standard license options for RapiDaemons, which are suitable for projects of different sizes:

- Single configuration licenses for RapiDaemons allow the use of RapiDaemons on a single configuration.
- Multiple configuration licenses for RapiDaemons allow the use of RapiDaemons on up to 3 configurations.
- Product line licenses for RapiDaemons allow the use of RapiDaemons on up to 10 configurations.

KEY TERMS

A **configuration** is a specific project and a specific multicore environment, including the board, CPU, external devices being used and configuration options. We work with you to define your configuration during the delivery process. A detailed description of your configuration is documented in your Licensing Agreement.

Some types of RapiDaemons and RapiDaemon tools are only available with certain license types; see Table 1.

In addition to the standard licensing models listed above, we are flexible and can work with you to find a licensing solution that meets your needs, including offering Enterprise licensing.

Table 1. RapiDaemons types and tools included in different license types

RapiDaemon type or tool	License type		
	Single configuration	Multiple configuration	Product line
Standard RapiDaemons	✓	✓	✓
Advanced RapiDaemons	✗	✓	✓
Tuneable RapiDaemons	✗	✓	✓
Discovery RapiDaemon tool*	✗	✗	✓
Surrogate RapiDaemon tool	✗	✗	✓

Licensing duration

You can purchase RapiDaemons with either an **annual** or **perpetual** license.

- **Annual licenses** let you use RapiDaemons for a number of annual periods. This is useful for projects with shorter durations.
- **Perpetual licenses** let you use RapiDaemons indefinitely. This supports the use of RapiDaemons in projects with long life cycles.

Support and maintenance

Support and maintenance for RapiDaemons ensures that you get the best from them. This includes:

- Access to our support team, who can resolve any issues you may have while using RapiDaemons. You can access our team via telephone or email. Our support is available in the English language during UK, US (Eastern Time) and India office hours Monday - Friday. We offer support outside these hours on a best effort basis.
- Access to any new RapiDaemons that are compatible with your multicore platform, including documentation and certification package material (subject to licenses you hold).
- Access to updates to the Discovery and Surrogate RapiDaemon tools.

Porting and customization

RapiDaemons must be configured for use on the specific multicore system being analyzed. This includes, for example, generating RapiDaemons for compatibility with code generated with specific compiler flags. Porting of RapiDaemons is provided through our *Target Integration Service*, as described in our *Target Integration Service Product brief*.

Qualification support

Qualification support materials for RapiDaemons for DO-178C are available separately as a DO-330 Qualification Kit and Qualified Target Integration Service.

Product codes

The product codes for our RapiDaemons products are shown in Table 2.

Table 2. RapiDaemons product codes

Product	License type	Product code		
		Duration		Support and maintenance
		Annual	Perpetual	
Standard RapiDaemons	Single configuration	RPDS-S-A	RPDS-S-P	RPDS-S-S
	Multiple configuration	RPDS-M-A	RPDS-M-P	RPDS-M-S
	Product line	RPDS-P-A	RPDS-P-P	RPDS-P-S
Advanced RapiDaemons	Multiple configuration	RPDA-M-A	RPDA-M-P	RPDA-M-S
	Product line	RPDA-P-A	RPDA-P-P	RPDA-P-S
Tuneable RapiDaemons	Multiple configuration	RPDT-M-A	RPDT-M-P	RPDT-M-S
	Product line	RPDT-P-A	RPDT-P-P	RPDT-P-S
Discovery RapiDaemon tool*	Product line	RPDD-P-A	RPDD-P-P	RPDD-P-S
Surrogate RapiDaemon tool	Product line	RPDR-P-A	RPDR-P-P	RPDR-P-S

Some types of RapiDaemons are only available with specific license types (see Table 1).

* Currently under development



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