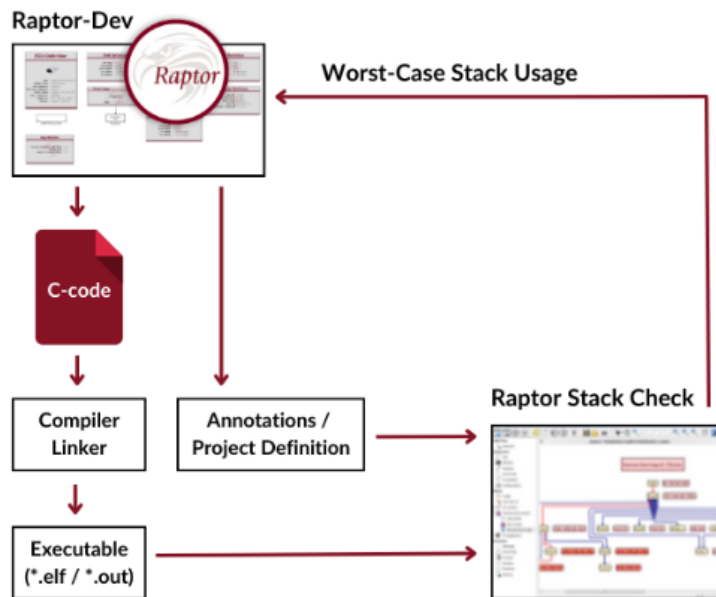




Raptor-Safe Stack Check

Development P/N: RAP-SAFE-STACK-DEV

Production P/N: RAP-SAFE-STACK-PROD-[ECU]



Raptor Stack Check is integrated within the Raptor-Safe family of tools and supports a wide range of New Eagle ECUs. Raptor Stack Check Development measures the worst-case stack consumption for all entry points in your application software, Stack Check Production adds all the OS and base software entry points. Both analyze **the executable** produced by the compiler. By operating on the executable directly, Raptor Stack Check ensures the analysis is 100% indicative of what you'll experience when running on hardware, which can be missed by solutions that only analyze source code.

How much effort did you spend debugging your last runtime error? Stack overflows are notoriously one of the costliest issues to debug on hardware. In addition to ensuring compliance with common functional safety standards, Raptor Stack Check will save you substantial development time, precious capital, and avoid traumatic issues leading up to or during demos by locating stack issues in minutes, not weeks.

For more details, visit <https://neweagle.net/raptor/>
Or contact our Sales Team at sales@neweagle.net

- **Automated/Integrated flow between Raptor-Dev and Raptor Stack Check.**
- **Automatic calculation of worst-case stack usage and critical flow control errors in your code.**
 - Worst case stack usage calculated per task.
 - Identifies potential recursive calls forbidden in safety critical systems.
 - Detects loops that may not terminate.
- **A key process step for compiling with all relevant safety standards:**
 - ISO 26262
 - DO-178B / DO-178C
 - IEC-61508
- **Generate reports and documentation tailored to your audience.**
 - Integrate Raptor Stack Check with CI/CD servers (such as Jenkins) to flag issues in nightly builds.
 - Produce reports that can be archived or presented to customers.
 - Generate call graphs to visualize the flow of your code in unique ways.
- **No hardware required to test model.**