

# Press Release

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ASD:Suite C code generator released

Tools for building  
mathematically  
verified software

## New C code generator delivers defect free software

Verum's new MISRA compliant C code generator for its ASD:Suite software design toolset brings the ability to build zero defect software to developers of automotive, semiconductor and other deeply embedded applications. The new code generator produces highly compact and resource efficient code that is intended to work with the most widely used operating systems and standards such as VxWorks®, Linux,  $\mu$ -velOSity™ and OSEK®. As with all code generated by the ASD:Suite, the C code is verifiably defect free – a vast improvement over alternative solutions.

Verum's CEO Robert Howe confirmed the importance of the announcement: "Our C code generator has been produced in response to demands from customers who wish to apply the ASD:Suite to deeply embedded applications. We have developed a solution with an extremely small runtime footprint and a static memory model that will enable ASD:Suite generated code to run in restricted resource environments. Automotive and device control application developers can now benefit from the dramatic efficiency and quality improvements that the ASD:Suite brings."

### Verum and Analytical Software Design

The ASD:Suite eliminates all behavioural defects from complex software designs, dramatically cutting the cost of software development, testing and maintenance. ASD:Suite automatic code generation further reduces the cost of software development resulting in an overall reduction of 30%. The key difference between Verum's ASD:Suite and tools that claim to improve productivity is Verum's Analytical Software Design formal verification technology: ASD allows the design of a software system to be formally verified as complete and correct, even before a single line of code has been written.

Leading companies such as Philips Applied Technologies and Philips Medical Systems have demonstrated that ASD increases productivity by a factor of 3-10 at the same time as delivering defect-free code.

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