Reduce the cost of developing critical software

To maintain your competitive advantage, you need high developer productivity and you need to get your critical software right first time.

Perfect Developer meets these needs by combining the unrivalled integrity of formal methods with automated proof in an easy-to-use development environment.

What is Perfect Developer?

Perfect Developer is a tool for modelling software systems, providing formal proofs of correctness, and (optionally) generating code from the model.

Unlike other formal tools, Perfect Developer delivers high productivity by generating a very high proportion of software verification proofs without user intervention, using state-of-the-art automated reasoning technology.

Reduces testing costs

By using Perfect Developer to prove the system correct before it is built, you avoid the need for debug/re-work/re-test cycles. When used within a mature software development process, Perfect Developer can reduce the need for unit testing by facilitating correct-by-construction software development.

Easy to learn and use

Perfect Developer uses a notation based on syntax and concepts drawn from programming languages. Its automated reasoning technology avoids the need for user involvement in constructing proofs. These features make Perfect Developer easier for today's software developers to learn and use than traditional formal methods.

In fact, Perfect Developer is so easy to learn that several universities use it in undergraduate software engineering courses.

Suitable for large and small systems

Perfect Developer has been used in a wide variety of applications, both large and small. These include embedded SIL 4 defence software, verifying business application logic, and of course Perfect Developer itself.

Try Perfect Developer for yourself!

Others are already using Perfect Developer in their critical software development processes. Isn’t it time that you joined them?

To discuss how Perfect Developer can reduce your critical software development costs, email critical@eschertech.com or telephone us on 020 8144 3265.
**Technical Specifications**

**Development platform requirements**
- PC with fast x86 or x64 processor and 2Gb or more main memory.
- Windows XP, Vista or 7 operating system, 32- or 64-bit. Contact us if you require a Linux edition.
- Text editor (syntax configuration files supplied for several popular editors).

**Verification proofs**
Proofs of verification conditions can be saved in HTML, Latex or plain text format.

**Generated code**
- Ada 2005 code with SPARK annotations (under development).
- C# 2.0 code to ISO/IEC 23270:2006 specification.

**About Escher Technologies**
Escher Technologies was founded in 1995 to research and develop leading-edge software development technology.

Our mission is to reduce the cost of developing dependable software, so that reliability can be the norm rather than the exception even for non-critical software.

Although our team has a strong commercial background, we maintain close links with the automated reasoning and formal methods research communities in leading universities worldwide.

For more information visit [http://www.eschertech.com](http://www.eschertech.com) or email critical@eschertech.com