

Software For Dependable Systems Sufficient Evidence

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Software For Dependable Systems Sufficient

The focus of Software for Dependable Systems is a set of fundamental principles that underlie software system dependability and that suggest a different approach to the development and assessment of dependable software. Unfortunately, it is difficult to assess the dependability of software.

Software for Dependable Systems: Sufficient Evidence ...

Critical systems are often subject to certification: a formal assurance that the system has met relevant technical standards designed to ensure it will not unduly endanger the public and can be depended upon to deliver its intended service safely and securely. Today, certification 1 of the dependability of a software-based system usually relies more on assessments of the process used to develop ...

Front Matter | Software for Dependable Systems: Sufficient ...

Features: Software for Dependable Systems is the work of the High Confidence Software and Systems Coordinating Group of the National Science and Technology Council and is an initial step to achieving a world in which the developer of software will inform the user of the software's intended use and its dependability under defined circumstances.

Software for Dependable Systems: Sufficient Evidence ...

Software for Dependable Systems stresses the importance of both process and people. But the book goes further and expresses the conviction that software will always be of unknown quality—which is scary for a safety-critical application—unless there's positive proof it is indeed correct.

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Abstract The focus of Software for Dependable Systems is a set of fundamental principles that underlie software system dependability and that suggest a different approach to the development and...

Software for dependable systems: Sufficient evidence ...

A software system should be regarded as dependable only if sufficient evidence of its explicitly articulated properties is presented to substantiate the dependability claim. This approach gives considerable leeway to developers to use whatever practices are best suited to the problem at hand.

Summary | Software for Dependable Systems: Sufficient ...

A software system should be regarded as dependable only if sufficient evidence is presented to substantiate the dependability claim. The evidence should take the form of a dependability case that explains why the critical properties hold, and it will involve reasoning about both the code and the environmental assumptions.

Software for Dependable Systems: Sufficient Evidence?

iii software for dependable systems for the project was obtained from the following HCSS CG agencies: the National Science Foundation, the National Security Agency, the Office of

Software for Dependable Systems: Sufficient Evidence ...

Rather than focusing narrowly on the question of software or system certification per se, this report adopts a broader perspective. A system is dependable when it can Software for Dependable Systems: Sufficient Evidence? depended on to produce the consequences for which it was designed, and no adverse effects, in its intended environment.

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Dependable systems are desirable since they are "trustworthy," as discussed in the security communities and reliable engineering communities. Dependable systems are typically characterized by the the following attributes: • Reliability: the system behaves as expected, with very few errors. Availability: the system and services are mostly available, with very little or no down time.

Dependable System - an overview | ScienceDirect Topics

Software for Dependable Systems: Sufficient Evidence? Software for Dependable Systems: Sufficient Evidence? Stein, R. Timothy 2008-07-01 00:00:00 READING ROOM Editors: Daniel Jackson, Martyn Thomas, Lynette I. Miller Publisher: National Academies Press ISBN: 978-0-309-10394-7 Publication date: 2007 Pages: 131 Price: \$32.18 oftware for Dependable Systems explores how software and the systems ...

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Jackson, Daniel, Martyn Thomas, and Lynette I. Millett, eds., Software for Dependable Systems: Sufficient Evidence? (Washington, D.C.: National Academies Press, 2007). This report is directed to the question of whether or not direct observation of a system can provide better assurance of its trustworthiness than the credentials of its ...

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The Insulin Pump software is a critical software system; it therefore must have the dependability attributes of a critical system. The insulin pump must have high levels of availability, reliability, safety and security. Since the service requirement of the insulin pump is intermittent, we cannot talk about its being available always.

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