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Portability of system and software -- Part 3: Testing method

系统与软件可移植性 第3部分：测试方法

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Foreword

GB/T 29833 in the "System and software portability" general title, divided into the following three parts.

--- Part 1. Index System;

--- Part 2. Measurement Methods;

--- Part 3. Test methods.

This is Part 3 GB/T 29833 of.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This part of the National Information Technology Standardization Technical Committee (SAC/TC28) and focal points.

This section is drafted. Shanghai computer software technology development center, China Electronics Standardization Institute, Zhejiang electronic products seized the inspection, Shenzhen City in the letter Information Technology Co., Ltd. Shanghai Pudong software

platform, Shanghai Baoxin Software Co., Ltd., Liaoning Northern Laboratories Ltd., National Software Quality Supervision and Inspection Center, Nanning square Software Technology Co., Ltd., on Shanghai Municipal Electric Power Company Branch Ministry.

Introduction

GB/T 29833 in this section provide portability of evaluation methods.

The index system based in part on portability and measurement methods, evaluation of the portability process has been described, the concrete implementation of Steps or corresponding method, user reviews or personnel to operate. The method set forth in this section is not a complete set, is still not included the new method of exploration. Portability can be tested by reference into this Part, this section or a single method suitable choice the combination of multiple methods for measuring the quality of systems and software portability situation.

This section applies to a variety of environmental adaptability requirements or have had a transplant procedure related systems and software testing, but not every the method is suitable for a variety of computer software products and related systems.

The main users of this standard is expected to include.

a) software suppliers, when.

1) When you declare a need portability of software products;

2) Statement of portable control characteristic self assessment systems and software products;

3) software portability products for the design and implementation of the relevant time;

b) the portability certificate of conformity or third party evaluation agency logo testing;

c) the potential demand-side when.

1) a description of the information requirements of the upcoming purchase of software portability products and when compared to existing products;

2) the presence of difference between the actual operating environment and procurement environment;

3) test the portability requirement is satisfied.

GB/T 29833.1 "Systems and software portability Part 1. Indicator System" gives portability index system, GB/T 29833.2 "Systems and Software Reliability - Part 2. Measurement Methods" shows how to get portability index measurement metrics method. This section is intended to be used in conjunction with the GB/T 29833.1 and GB/T 29833.2.

Systems and software portability Part 3. Test methods

1 Scope

GB/T 29833 in this section shows how to get portability indicator measures the value of the test method.

This section applies to a variety of environmental adaptability requirements or have had a transplant procedure related systems and software testing.

NOTE: The system referred to in this section are primarily software system.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 11457 software engineering terminology GB/T 29833.1 systems and software portability - Part 1. Index System GB/T 29833.2 systems and software portability - Part 2. Measurement Methods

3 Terms and Definitions

Terms and definitions GB/T 11457 and GB/T 29833.1, as defined in this document apply.

4 Overview

GB/T 29833.2 provides systems and software portability measure, for this part of the formula for measure, given Test Methods. Other techniques may be used indirectly to complete the test. Common maintenance test methods. expert evaluation method, testing technology Law and user survey. All kinds of methods as follows.

a) expert evaluation method --- a subjective evaluation method. When the assessment should be reviewed in accordance with the object and purpose of the assessment, design review project

Table lists the scoring column, scores, weights, and scoring rules. N may be composed of a expert review group, according to its own expert

Experience and knowledge, to judge scoring. Then, based on the weight and the weight of expert statistical rules, summary scores were calculated, the calculated the value as a result of the review. Scoring rules can be hierarchical, it can also be a range of values, or select one of the other Appropriate rules;

b) Technical Test Method --- an objective evaluation method. When testing technology, can be based on the measured object and purpose of the test, opt Suitable for automated testing tools, but also by doing manual testing. The results obtained in testing technology is

usually an amount of the measurement results;

c) User survey questionnaire sought --- one kind of method for specific user groups. When a user survey should be based on the purpose and special investigations Given user group, design the questionnaire, so that respondents fill in and feedback, the number of recovered questionnaire should reach a certain number, not Less than the appropriate proportion of the number issued. Then, the collected questionnaires aggregate calculations, the calculated value as a user survey the result of.