

ICS 35.080
CCS L 77



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 29833.2-2013

Portability of system and software -- Part 2: Metric method

系统与软件可移植性 第2部分：度量方法

(English Translation)

Issued on: January 1, 1970

Implemented on: January 1, 1970

Issued by: Standardization Administration of China

Table of Contents

Introduction
Introduction
1 Scope
2 Normative references
3 Terms and definitions
Adaptability 4
5 Easy replacement of
6 Easy to install
7 Migration integrity
Reference

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 2 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

This section GB/T 29833 with reference to GB/T 16260-2006 "Software engineering - Product quality" provides a measure of the quality of portability method.

This section of software portability products from adaptability, easy to replace, easy installation, portability integrity to be measured. In a specific when applied, according to the characteristics of the software to select the appropriate elements of the measured target software portability measure evaluated.

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 29833.3 "Systems and software portability Part 3. Indicator System" describes test methods portability Index. This section Designed to be used in conjunction with the GB/T 29833.1 and GB/T 29833.3.

Systems and software portability Part 2. Measurement Methods

1 Scope

GB/T 29833 in this part of the system according to the index system and software portability provisions for each type of system evaluation indicators Measure.

This section is intended to guide the user to the system and the index system software portability in GB/T 29833.1 described to measure Comments price. And by measuring results reflect the merits of the system and software portability. Users can target different needs of specific migration products, applications this section of the measurement method.

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

3 Terms and Definitions

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

4 Adaptability

Adaptive software should attribute to the ability to adapt to the environment-related measure, as shown in Table 1.

Table 1 Adaptability

Index Name Index Description Measure, formula and data element computations
measurements Description Hardware Adaptability Systems and software to adapt to the new Environmental processes, the hardware environment Software impact on the ability to adapt $X = A/B$ where.

A --- the amount of hardware and software system can adapt;

B --- desired system and software can adapt to hardware and operating correctly the total number of the type of environment $0 \leq X \leq 1$, closer 1, the better Suitable operating system Atopic A variety of operating systems and software.

Ability to adapt to the system.

For the operating system adaptability, Please consider other related degree Quantity characteristics $X = A/B$ where.

A --- systems and software to successfully adapt to the number of operating systems;

B --- desired system and software to successfully adapt to the operating system Number $0 \leq X \leq 1$, closer 1, the better