

ICS 35.080??

CCS L 77



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

GB/T 18491.6-2010

**Information technology -- Software measurement -- Functional
size measurement -- Part 6: Guide for use of GB/T 18491 series
and related standards**

信息技术 软件测量 功能规模测量 第6部分：GB/T 18491系列标准和相关标准的
使用指南

(English Translation)

Issued on: December 1, 2010

Implemented on: April 1, 2011

Issued by: Standardization Administration of China

Table of Contents

Preface

Introduction

1 Scope

Acronyms 1

3 Functional Size Measurement (FSM) standards (GB/T 18491 series) and functional size measurement method (FSMM) standard

And the relationship between

4 Functional Size Measurement (FSM) and FS function scale (FS) use

5 Functional size measurement method (FSMM) selection and development process

Appendix A (normative) Functional Size Measurement (FSM) standards range

References

Foreword

GB/T 18491 under "Information technology - Software measurement - Functional size measurement," the general title, currently composed of the following six components.

--- Part 1. definition of the concept;

--- Part 2. software size measurement methods to evaluate compliance GB/T 18491.1-2001's;

--- Part 3. Verification of functional size measurement methods;

--- Part 4. Reference model;

--- Part 5. domain functional size measurement is determined;

--- Part 6. GB/T 18491 series of standards and guidelines related to the use of standards.

This section GB/T 18491 Part 6.

This section identical with the international standard ISO/IEC 14143-6:2006 "Information technology - Software measurement - Functional size measurement Part 6. ISO/IEC 14143 series of standards and relevant international standards Guide "(in English). As the national standards all push Recommended standard, ISO/IEC 14143-6:2006 technical report writing are listed for deletion process when translated into national standards.

Appendix A of this section is informative appendix.

This part of the National Information Technology Standardization Technical Committee and

centralized.

This section is responsible for drafting units. China Electronics Standardization Institute, Shanghai computer software technology development center, Shanghai Baosight Co., Ltd., Shanghai Information Technology Co., Ltd. Lu Qixin.

Introduction

Functional Size Measurement (FSM) is a technique to measure the size of software by quantifying the functional requirements of software users. Originally published package the method of containing this concept is analyzed by the AlanAlbercht in the 1970s, developed in the late function points. Thereafter, the original method We developed a number of extensions and variants. In ISO/IEC international standards in the field, and functional size measurement related to the following international standards and technical reports Report has been published.

ISO/IEC 14143 series of standards, Part 1 to Part 5 (corresponding to GB/T 18491.1 ~ 18491.5);

--- ISO/IEC 19761:2002;

--- ISO/IEC 20926:2002;

--- ISO/IEC 20968:2002;

--- ISO/IEC 24570:2004.

The purpose of this part of the preparation of these standards is to provide for users and developers FSM approach and guide the relationship between use.

Function scale (FS) by measuring embodied in a software, the software will help to better understand the characteristics of its development, maintenance and support Support activities. Size and function and (or) the definition and use of functional size measurement standards related to three types.

- a) the concept of standards. describe concepts and provide definitions;
- b) support standards. to provide accessibility size measurement method (FSMM) evaluation of information, and provide examples of software field measurements;
- c) the standard method. Examples of definitions FSMM.

In addition to the standard method, provided that they meet GB/T 18491.1, can be used to measure any FSMM FS. FSMM measurement software can Force fields can vary vary. Therefore, before deciding which FSMM, to properly assess the scale of the tested software fix Capability approach is wise.

This section provides the use of all standard and functional size measurement related to the selection of suitable FSMM guide.

Features a variety of purposes scale application selected FSMM results obtained can be used throughout the software life cycle. This section also provides for how to use the FSM and function to manage the size of an illustrative example of software development and maintenance.

Information technology - Software measurement - Functional size measurement Part 6.
GB/T 18491 series of standards and related standards Guide

1 Scope

This section GB/T 18491 provides a functional size measurement between (FSM) standards general description and the following criteria relationship.

--- GB/T 18491 series FSM framework of standards that provide FSM definitions and concepts as well as functional size measurement Party Law (FSMM) compliance and verification;

--- ISO/IEC FSMM standard, ISO/IEC 19761, ISO/IEC 20926, ISO/IEC 20968 and ISO/IEC 24570.

This section also provides help in the selection and development process to meet their needs FSMM and how to use the function scale (FS) of guide. FSMM including but not limited to ISO/IEC 19761, ISO/IEC 20926, ISO/IEC 20968 and ISO/IEC 24570 four standard.

NOTE: FSMM software size measurement method is in line with GB/T 18491.1 mandatory requirements, recommended specific FSMM beyond the scope of this section.

Expected readership of this section is.

--- FSM users and potential users;

--- FSMM the developer.

2 Acronyms

BFC basic functional components (BaseFunctionalComponent) FS function scale (FunctionalSize) FSM Functional Size Measurement (FunctionalSizeMeasurement) FSMM functional size measurement method (FunctionalSizeMeasurementMethod) FUR user functional requirements (FunctionalUserRequirement) Relationship 3 Functional Size Measurement (FSM) standards (GB/T 18491 series) and functional size measurement method (FSMM) standard and both

3.1.1 Summary

Function Point Analysis was founded in the late 1970s, after they use around the world. Over time, derivatives and design A number of alternative methods. Although these

methods vary in the rules for measuring software, but are concerned about software FUR.

GB/T 18491.1 defines the concept of FSM and FSMM. GB/T 18491 in the subsequent sections (GB/T 18491 series) have Worked out for evaluating FSMM.

The following summarizes these standards FSM points.

NOTE: For a copy of the relevant standard FSM chapter "scope", Appendix A to this part A.

3.1.2 GB/T 18491.1

GB/T 18491.1 standard is a concept, and is the basis of other criteria, these criteria are divided into standard and supports standard method Categories.

This section is where the series of standards on the basis of the standard, as follows.