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

GB/T 4092-2008

Replacing GB/T 4092-1992

Information technology -- Programming languages -- COBOL

信息技术 程序设计语言COBOL

(English Translation)

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Table of Contents

Preface
1 Scope
2 Normative references
Three pairs of the standard compliance
3.1 Compliance achieve
3.2 Compliant compiler Group
Running Unit 3.3 compliant
3.4 Relationship compiled in line with the group in line with realization of
3.5 In line with the relationship run unit and implemented in line
4 Terms and definitions
5 Technical
5.1 The general format
5.2 Rule
5.3 Arithmetic expression
5.4 Operation 21 integers
5.5 Non-Formal Description
5.6 Hyphens body
The auxiliary forms 5.7 EXPRESS
6 Reference format
6.1 Indicator
6.2 Fixed form reference format
6.3 Free-form reference format
6.4 Conversion Logic
7 Pragma facilities
7.1 Text processing
7.2 Compiler directive
8 Language Basics
8.1 Character Set

Foreword

The Standard and ISO/IEC 1989:2002 "Information technology - Programming language COBOL" of non-equivalent.

This standard replaces GB/T 4092-1992.

This standard and GB/T 4092-1992 the differences are as follows.

--- The standard configuration of the 4092-1992 GB/T made a major adjustment. GB/T 4092-1992 is divided into 12 parts, the present Standard to integrate them into a standard;

--- Achieve increased compliance requirements;

--- Part of the term to do a larger adjustment. Which increases the term 116, revised the terms 39, delete the term 242;

--- Adds object-oriented programming features;

--- Enhanced additional features for anomaly detection and reporting;

--- Enhanced algorithm portability;

--- Increased local character data type for processing multi-bit coded character set;

--- Increased primitive binary and floating-point data types;

--- Increasing user-defined functions;

--- Adds file sharing and record locking;

--- Increasing the internal functions;

--- Enhanced interoperability with other languages.

The standard proposed by the People's Republic of China Ministry of Information Industry.

This standard by the National Information Technology Standardization Technical Committee.

This standard was drafted. China Electronics Standardization Institute.

1 Scope

This standard specifies the COBOL syntax and semantics.

This standard specifies.

--- Written form COBOL compile groups;

--- Compile a compiler group performance;

--- Run effect execution unit;

- Compliance requirements to achieve to meet the language elements of its definition;
- Meaning of language elements that are not explicitly defined;
- Dependent processor performance language elements.

The standard does not specify.

--- COBOL compiler set in writing, the manner in which the processor compile them into executable code;

--- Methods, modules connect or bind to a statement on the time of activation function or program is running, when appropriate procedures or methods in the series when the translation when unknown binding except in the case the inevitable happened;

When --- parameterized class is expanded;

--- Define a local environment on the processor and make it available mechanisms;

--- Error message, tag information or form or content of the warning message;

The form and the content list generated --- compile time (if any);

--- Implementors proposed form of documents conforming to this standard product;

Sharing resources between --- run unit, except for the file.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 1988-1998 Technical information interchange bit coded character set (eqv ISO/IEC 646:1991) GB/T 7574-2008 Information processing - File structure with tape and label (ISO 1001. 1986, IDT) ISO/IEC 9945-2:1993 Information technology - Portable Operating System Interface (POSIX) - Part 2. Commands and Utilities ISO/IEC TR10176:2001 Information technology - Guidelines for the preparation of programming language standards ISO/IEC 10646:2003 Information technology - Universal Multiple-Octet Coded Character Set (UCS) ISO/IEC 14651:2001 Information technology - International string ordering and comparison string comparison method and generic templating can be customized Sort description Three pairs of the standard compliance this chapter sets out to achieve compliance with this standard shall meet the requirements. And defines a number of conditions, under these conditions the compiler or runtime group Unit conforms to the standard features they use.

3.1 Conforming implementation

In order to comply with this standard, the standard COBOL implementations should provide standardized elements in Chapter 6 to Chapter 16 provisions, and meet 3.1.1 ~