

# INTERNATIONAL STANDARD

**ISO/IEC  
13719-2**

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## **Information technology — Portable Common Tool Environment (PCTE) —**

### **Part 2: C programming language binding**

*Technologies de l'information — Environnement d'outil courant  
portable (PCTE) —*

*Partie 2: Interface de programmation en langage de programmation C*



Reference number  
ISO/IEC 13719-2:1998(E)

**Contents**

<b>1 Scope</b>	<b>1</b>
<b>2 Conformance</b>	<b>1</b>
<b>3 Normative references</b>	<b>1</b>
<b>4 Definitions</b>	<b>2</b>
<b>5 Formal notations</b>	<b>2</b>
<b>6 Outline of the Standard</b>	<b>2</b>
<b>7 Binding strategy</b>	<b>2</b>
<b>7.1 C programming language standard</b>	<b>2</b>
<b>7.2 General principles</b>	<b>3</b>
<b>7.3 Sets and sequences</b>	<b>3</b>
<b>7.4 Character strings</b>	<b>4</b>
<b>7.5 Memory allocation</b>	<b>4</b>
<b>7.6 References and names</b>	<b>4</b>
<b>7.7 Operation return values</b>	<b>5</b>
<b>7.8 Error conditions</b>	<b>5</b>
<b>7.9 Identifiers</b>	<b>5</b>
<b>7.10 Implementation limits</b>	<b>5</b>
<b>8 Datatype mapping</b>	<b>6</b>
<b>8.1 Mapping of PCTE datatypes to LI datatypes</b>	<b>6</b>
<b>8.1.1 Mapping of predefined PCTE datatypes</b>	<b>6</b>
<b>8.1.2 Mapping of private PCTE datatypes</b>	<b>7</b>
<b>8.1.3 Mapping of complex PCTE datatypes</b>	<b>8</b>
<b>8.1.4 New LI datatype generators</b>	<b>8</b>
<b>8.2 Mapping of LI datatypes to C datatypes</b>	<b>9</b>
<b>8.2.1 LI datatype boolean</b>	<b>9</b>
<b>8.2.2 LI datatype pcte-integer</b>	<b>9</b>
<b>8.2.3 LI datatype pcte-natural</b>	<b>10</b>
<b>8.2.4 LI datatype pcte-float</b>	<b>11</b>
<b>8.2.5 LI datatype pcte-time</b>	<b>12</b>
<b>8.2.6 LI datatype pcte-text</b>	<b>13</b>

<b>8.2.7</b> LI datatype octet	<b>14</b>
<b>8.2.8</b> LI enumerated datatype pcte-xxx	<b>14</b>
<b>8.2.9</b> LI private datatypes	<b>15</b>
<b>8.2.10</b> LI datatype generator pcte-sequence	<b>15</b>
<b>8.2.11</b> LI datatype pcte-string	<b>17</b>
<b>8.2.12</b> LI datatype generator bounded-set	<b>18</b>
<b>8.2.13</b> LI datatype generator choice	<b>19</b>
<b>8.2.14</b> LI datatype record	<b>20</b>
<b>8.3</b> Private datatypes	<b>21</b>
<b>8.4</b> References and names	<b>22</b>
<b>8.5</b> C private type Pcte_sequence	<b>23</b>
<b>8.5.1</b> Operations on sequences	<b>27</b>
<b>8.5.2</b> Error conditions for sequence operators	<b>30</b>
<b>8.6</b> Deriving C function semantics from the abstract specification	<b>30</b>
<b>8.7</b> Headers	<b>31</b>
<b>8.7.1</b> The global PCTE header	<b>32</b>
<b>8.7.2</b> The PCTE basic type header	<b>32</b>
<b>8.7.3</b> The PCTE sequence header	<b>33</b>
<b>9 Object management</b>	<b>36</b>
<b>9.1</b> Object management datatypes	<b>37</b>
<b>9.2</b> Link operations	<b>39</b>
<b>9.3</b> Object operations	<b>43</b>
<b>9.4</b> Version operations	<b>49</b>
<b>10 Schema management</b>	<b>51</b>
<b>10.1</b> Schema management datatypes	<b>51</b>
<b>10.2</b> Update operations	<b>53</b>
<b>10.3</b> Usage operations	<b>59</b>
<b>10.4</b> Working schema operations	<b>62</b>
<b>11 Volumes, devices, and archives</b>	<b>66</b>
<b>11.1</b> Volume, device, and archive datatypes	<b>66</b>
<b>11.2</b> Volume, device, and archive operations	<b>67</b>
<b>11.3</b> Clusters	<b>69</b>
<b>12 Files, pipes, and devices</b>	<b>70</b>
<b>12.1</b> File, pipe, and device datatypes	<b>70</b>
<b>12.2</b> File, pipe, and device operations	<b>71</b>
<b>13 Process execution</b>	<b>73</b>
<b>13.1</b> Process execution datatypes	<b>74</b>
<b>13.2</b> Process execution operations	<b>74</b>
<b>13.3</b> Security operations	<b>78</b>
<b>13.4</b> Profiling operations	<b>79</b>

<b>13.5</b> Monitoring operations	<b>79</b>
<b>14 Message queues</b>	<b>80</b>
<b>14.1</b> Message queue datatypes	<b>80</b>
<b>14.2</b> Message queue operations	<b>81</b>
<b>15 Notification</b>	<b>84</b>
<b>15.1</b> Notification datatypes	<b>84</b>
<b>15.2</b> Notification operations	<b>84</b>
<b>16 Concurrency and integrity control</b>	<b>85</b>
<b>16.1</b> Concurrency and integrity control datatypes	<b>85</b>
<b>16.2</b> Concurrency and integrity control operations	<b>85</b>
<b>17 Replication</b>	<b>86</b>
<b>17.1</b> Replication datatypes	<b>86</b>
<b>17.2</b> Replication operations	<b>87</b>
<b>18 Network connection</b>	<b>88</b>
<b>18.1</b> Network connection datatypes	<b>88</b>
<b>18.2</b> Network connection operations	<b>89</b>
<b>18.3</b> Foreign system operations	<b>91</b>
<b>18.4</b> Time operations	<b>91</b>
<b>19 Discretionary security</b>	<b>91</b>
<b>19.1</b> Discretionary security datatypes	<b>92</b>
<b>19.2</b> Discretionary access control operations	<b>94</b>
<b>19.3</b> Discretionary security administration operations	<b>94</b>
<b>20 Mandatory security</b>	<b>96</b>
<b>20.1</b> Mandatory security datatypes	<b>96</b>
<b>20.2</b> Mandatory security operations	<b>96</b>
<b>20.3</b> Mandatory security administration operations	<b>98</b>
<b>20.4</b> Mandatory security operations for processes	<b>99</b>
<b>21 Auditing</b>	<b>100</b>
<b>21.1</b> Auditing datatypes	<b>100</b>
<b>21.2</b> Auditing operations	<b>103</b>
<b>22 Accounting</b>	<b>105</b>
<b>22.1</b> Accounting datatypes	<b>105</b>
<b>22.2</b> Accounting administration operations	<b>107</b>
<b>22.3</b> Consumer identity operations	<b>109</b>
<b>23 References</b>	<b>109</b>
<b>23.1</b> Reference datatypes	<b>109</b>

<b>23.2</b> Object reference operations	<b>110</b>
<b>23.3</b> Link reference operations	<b>112</b>
<b>23.4</b> Type reference operations	<b>114</b>
<b>24</b> <b>Limits</b>	<b>115</b>
<b>24.1</b> Implementation limit datatypes	<b>115</b>
<b>24.2</b> Implementation limit operations	<b>117</b>
<b>25</b> <b>Error conditions</b>	<b>117</b>
<b>25.1</b> Error condition datatypes	<b>117</b>
<b>25.2</b> Error condition operations	<b>124</b>
<b>Annex A - The object orientation module</b>	<b>125</b>
<b>Index of abstract operations</b>	<b>130</b>
<b>Index of C subprograms</b>	<b>136</b>
<b>Index of C datatypes</b>	<b>143</b>

## Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

International Standard ISO/IEC 13719-2 was prepared by ECMA (as Standard ECMA-158) and was adopted, under a special “fast-track procedure”, by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by national bodies of ISO and IEC.

This second edition cancels and replaces the first edition (ISO/IEC 13719-2:1995), which has been technically revised.

ISO/IEC 13719 consists of the following parts, under the general title *Information technology - Portable Common Tool Environment (PCTE)*:

- *Part 1: Abstract specification*
- *Part 2: C programming language binding*
- *Part 3: Ada programming language binding*
- *Part 4: IDL binding (Interface Definition Language)*

Annex A forms an integral part of this part of ISO/IEC 13719.

# Information technology — Portable Common Tool Environment (PCTE) —

## Part 2: C programming language binding

### 1 Scope

This part of ISO/IEC 13719 defines the binding of the Portable Common Tool Environment (PCTE), as specified in ISO/IEC 13719-1, to the C programming language.

A number of features are not completely defined in ISO/IEC 13719-1, some freedom being allowed to the implementor. Some of these features are specified as implementation limits. Some constraints are placed on these implementation limits by this part of ISO/IEC 13719. These constraints are specified in clause 24, Implementation Limits.

PCTE is an interface to a set of facilities that forms the basis for constructing environments supporting systems engineering projects. These facilities are designed particularly to provide an infrastructure for programs which may be part of such environments. Such programs, which are used as aids to system development, are often referred to as tools.

### 2 Conformance

An implementation of PCTE conforms to this part of ISO/IEC 13719 if it conforms to 2.2 of ISO/IEC 13719-1, where the binding referred to there is taken to be the C language binding defined in clauses 1 to 5 and 8 to 25 of this part of ISO/IEC 13719. All other parts of this part of ISO/IEC 13719 are provided as assistance to the reader and are not normative.

The C language binding defined in this part of ISO/IEC 13719 conforms to 2.1 of ISO/IEC 13719-1.

### 3 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO/IEC 13719. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO/IEC 13719 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO/IEC 13719-1:1998, *Information technology - Portable Common Tool Environment (PCTE) - Part 1: Abstract specification.*

ISO/IEC 13719-3:1998, *Information technology - Portable Common Tool Environment (PCTE) - Part 3: Ada programming language binding.*

ISO 8601:1988, *Data elements and interchange formats - Information interchange - Representation of dates and times.*

ISO 9899:1990, *Programming languages - C.*

ISO/IEC TR 10182:1993, *Information technology - Programming languages, their environments and system software interfaces - Guidelines for language bindings.*

ISO/IEC 11404:1996, *Information technology - Programming languages, their environments and system software interfaces - Language-independent datatypes.*