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Sous-ensemble PL/I pour usage général*



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Contents

| | |
|--|----------|
| 1. Scope and Overviews | 1 |
| 1.1 Scope | 1 |
| 1.2 Referenced Publications | 1 |
| 1.3 Goals and Rationale | 2 |
| 1.4 An Informal Guide to the PL/I Definition | 3 |
| 1.4.1 A Summary of PL/I | 3 |
| 1.4.2 The Form of the Definition | 4 |
| 1.4.3 Summary of Chapter Structure | 6 |
| 1.4.4 Introduction to the Metalanguage | 10 |
| 1.4.4.1 Tree Concepts | 10 |
| 1.4.4.2 Syntaxes | 11 |
| 1.4.4.3 Algorithm Concepts | 12 |
| 1.5 Relationships between an Implementation and this Definition | 14 |
| 1.5.1 Flexibilities of Interpretation | 15 |
| 1.5.1.1 Rejection of Programs | 15 |
| 1.5.1.2 Quantitative Restrictions | 15 |
| 1.5.1.3 Addressing Restrictions | 15 |
| 1.5.1.4 Operating Environment | 16 |
| 1.5.1.5 Character Sets | 16 |
| 1.5.1.6 Expression Evaluation | 16 |
| 1.5.1.7 Interrupts and Assignment | 17 |
| 1.5.1.8 Input/Output | 17 |
| 1.5.1.9 On-units | 17 |
| 1.5.2 Implementation-defined Features | 18 |
| 1.6 The Metalanguage | 20 |
| 1.6.1 Trees | 21 |
| 1.6.1.1 Tree Definitions | 21 |
| 1.6.1.2 Node Objects | 22 |
| 1.6.1.2.1 Unique-names | 23 |
| 1.6.1.2.2 Types | 23 |
| 1.6.1.3 Node Notation | 23 |
| 1.6.1.4 Tree Notation | 24 |
| 1.6.1.4.1 Enumerated-Trees | 24 |
| 1.6.1.4.2 Forms | 25 |
| 1.6.1.5 Tree Copies | 25 |
| 1.6.2 Production Rules | 25 |
| 1.6.2.1 Production Rules and Syntaxes | 25 |
| 1.6.2.2 Complete and Partial Trees | 26 |
| 1.6.2.3 Syntactic-expressions and Syntactic-units | 28 |
| 1.6.2.4 Use of the Production Rules | 28 |
| 1.6.2.4.1 Subnode-type Sequence with respect to a Syntax and Category-name | 29 |
| 1.6.2.4.2 Subnode-type Sequence with respect to a Syntactic-expression | 29 |
| 1.6.3 Operations | 30 |
| 1.6.3.1 Nature of an Operation | 30 |

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| | | |
|-----------|--|-----------|
| 1.6.3.2 | Nondeterministic Operations | 31 |
| 1.6.3.3 | Format of an Operation | 31 |
| 1.6.3.4 | Instructions | 32 |
| 1.6.3.5 | Convert | 34 |
| 1.6.3.6 | Additional Notational Conventions | 34 |
| 1.6.3.7 | Arithmetic | 34 |
| 1.6.3.7.1 | Properties of Arithmetic in the Metalanguage | 34 |
| 1.6.3.7.2 | Properties of Arithmetic in PL/I | 35 |
| 1.6.4 | The Processor | 36 |
| 1.6.5 | Mechanization of the Metalanguage | 37 |
| 1.7 | Initialization of the Machine-state | 39 |
| 1.7.1 | The Machine-state | 39 |
| 1.7.2 | Initialization | 39 |
| 1.7.3 | The Top-level Operations | 39 |
| 1.7.3.1 | Define-program | 39 |
| 1.7.3.2 | Translation-phase | 40 |
| 1.7.3.3 | Interpretation-phase | 40 |
| 2. | Concrete Syntax | 41 |
| 2.1 | Introduction | 41 |
| 2.2 | The Intent of this Definition | 41 |
| 2.2.1 | Concrete and Abstract Syntaxes | 41 |
| 2.3 | Organization of the Concrete Syntax | 41 |
| 2.4 | The High-level Syntax of PL/I | 42 |
| 2.4.1 | Translation Unit | 42 |
| 2.4.2 | Package | 42 |
| 2.4.3 | Procedure | 42 |
| 2.4.4 | Unit | 42 |
| 2.4.5 | Executable Units | 42 |
| 2.4.6 | If Statement | 43 |
| 2.4.7 | Do Group | 43 |
| 2.4.8 | Select Group | 43 |
| 2.4.9 | Begin Block | 43 |
| 2.4.10 | On Unit | 44 |
| 2.4.10.1 | Condition Prefixes | 44 |
| 2.4.10.2 | Statement Name Prefixes | 44 |
| 2.4.11 | Data Declaration | 44 |
| 2.4.11.1 | Dimension Attribute and Dimension Suffix | 44 |
| 2.4.11.2 | Attributes | 45 |
| 2.4.11.3 | Data Attributes | 45 |
| 2.4.11.4 | Environment and Options | 46 |
| 2.4.11.5 | Initial | 46 |
| 2.4.12 | The Package Statement | 46 |
| 2.4.13 | The Procedure Statement | 46 |
| 2.4.14 | The Begin Statement | 47 |
| 2.4.15 | The Do Statement | 47 |
| 2.4.16 | The Select Statement | 47 |
| 2.4.17 | The End Statement | 47 |
| 2.4.18 | Flow of Control Statements | 48 |
| 2.4.18.1 | The Call and Return Statements | 48 |
| 2.4.18.2 | The Go To Statement | 48 |
| 2.4.18.3 | The Leave Statement | 48 |
| 2.4.18.4 | The Null Statement | 48 |
| 2.4.18.5 | The Revert and Signal Statements | 48 |

| | | |
|------------|---|-----------|
| 2.4.18.6 | The Stop Statement | 48 |
| 2.4.19 | Storage Control Statements | 48 |
| 2.4.20 | Input/Output Statements | 49 |
| 2.4.20.1 | The Open and Close Statements | 49 |
| 2.4.20.2 | Record I/O | 49 |
| 2.4.20.3 | Stream I/O | 50 |
| 2.4.20.3.1 | Stream Input Specification | 50 |
| 2.4.20.3.2 | Stream Output Specification | 50 |
| 2.4.20.3.3 | Format Specification Lists and the Format Statement | 50 |
| 2.4.21 | Expressions | 51 |
| 2.4.22 | Enquiry Functions | 52 |
| 2.5 | The Low-level Syntax of PL/I | 57 |
| 2.5.1 | PL/I Text | 57 |
| 2.5.2 | Comment | 57 |
| 2.5.3 | Identifier | 57 |
| 2.5.4 | Arithmetic Constant | 57 |
| 2.5.5 | String Constants and Pictures | 58 |
| 2.5.6 | Include | 58 |
| 2.6 | Character Sets | 59 |
| 2.6.1 | Language Character Set | 60 |
| 2.6.1.1 | Letters and Digits | 60 |
| 2.6.1.2 | Special Characters | 61 |
| 2.6.2 | Data Character Set | 61 |
| 2.6.3 | Secondary Case Characters in Numeric and Bit Values | 61 |
| 2.7 | Abbreviations | 62 |
| 3. | Abstract Syntax | 63 |
| 3.1 | Introduction | 63 |
| 3.2 | Abstract Syntax Rules | 63 |
| 3.2.1 | Program | 63 |
| 3.2.2 | Package | 63 |
| 3.2.3 | Procedure | 63 |
| 3.2.4 | Declaration | 64 |
| 3.2.5 | Variable | 64 |
| 3.2.6 | Data-description | 64 |
| 3.2.7 | Data-type | 65 |
| 3.2.8 | Named-constant | 66 |
| 3.2.9 | Entry-point | 66 |
| 3.2.10 | Executable-unit | 66 |
| 3.2.11 | Begin-block | 67 |
| 3.2.12 | Groups | 67 |
| 3.2.13 | Selections | 67 |
| 3.2.14 | On Statement | 68 |
| 3.2.15 | If Statement | 68 |
| 3.2.16 | Flow of Control Statements | 68 |
| 3.2.17 | Storage Statements | 69 |
| 3.2.18 | I/O Statements | 69 |
| 3.2.19 | Record I/O Statements | 69 |
| 3.2.20 | Stream I/O Statements | 70 |
| 3.2.21 | Expression | 71 |
| 3.2.22 | Types of Reference | 72 |
| 3.2.23 | Constant | 73 |
| 3.2.24 | Types of Value | 73 |
| 3.2.25 | Types of Picture | 73 |

| | |
|--|-----------|
| 4. The Translator | 75 |
| 4.1 Introduction | 75 |
| 4.2 Translate | 75 |
| 4.3 Forming the Translation Unit | 76 |
| 4.3.1 Low-level-parse | 77 |
| 4.3.2 High-level-parse | 78 |
| 4.4 Validation of the Translation Unit | 80 |
| 4.5 Completion of the External Unit | 80 |
| 4.5.1 Reorganize | 81 |
| 4.5.1.1 Complete-options | 81 |
| 4.5.1.2 Complete-attribute-implications | 81 |
| 4.5.1.3 Defactor-declarations | 82 |
| 4.5.2 Construct-explicit-declarations | 83 |
| 4.5.2.1 Declare-parameters | 83 |
| 4.5.2.2 Declare-statement-names | 84 |
| 4.5.2.3 Construct-statement-name-declarations | 85 |
| 4.5.3 Complete-structure-declarations | 87 |
| 4.5.3.1 Determine-structure | 87 |
| 4.5.3.2 Convert-to-logical-levels | 88 |
| 4.5.3.3 Propagate-alignment | 88 |
| 4.5.3.4 Find-applicable-declaration | 89 |
| 4.5.3.5 Find-fully-qualified-name | 90 |
| 4.5.4 Construct-contextual-declarations | 91 |
| 4.5.5 Complete-declarations | 93 |
| 4.5.5.1 Test-attribute-consistency | 94 |
| 4.5.5.2 Test-invalid-duplicates | 96 |
| 4.5.5.3 Apply-defaults | 96 |
| 4.5.5.4 Apply-attribute | 98 |
| 4.5.5.5 Complete-constructed-entry-declaration | 98 |
| 4.5.5.6 Test-name-in-description | 101 |
| 4.5.6 Validate-concrete-declarations | 101 |
| 4.5.6.1 Check-attribute-completeness-and-delete-attributes | 102 |
| 4.6 Create-abstract-equivalent-tree | 103 |
| 4.6.1 Creation of Blocks and Groups | 104 |
| 4.6.1.1 Create-package | 104 |
| 4.6.1.2 Create-procedure | 105 |
| 4.6.1.3 Create-begin-block | 106 |
| 4.6.1.4 Create-block | 106 |
| 4.6.1.5 Replace-concrete-designators | 107 |
| 4.6.1.6 Replace-concrete-precision-designators | 107 |
| 4.6.1.7 Replace-concrete-named-constant-designators | 108 |
| 4.6.1.8 Create-group | 108 |
| 4.6.1.9 Create-selection | 109 |
| 4.6.1.10 Create-executable-unit-list | 110 |
| 4.6.1.11 Create-executable-unit | 110 |
| 4.6.1.12 Create-entry-point | 110 |
| 4.6.1.13 Create-statement-name | 111 |
| 4.6.1.14 Create-condition-prefix-list | 112 |
| 4.6.1.15 Create-condition | 112 |
| 4.6.1.16 Test-descriptor-extent-expressions | 113 |
| 4.6.2 Creation of Statements | 113 |
| 4.6.2.1 Create-assignment-statement | 113 |
| 4.6.2.2 Data-descriptions Proper for Assignment | 114 |

| | | |
|----------|-------------------------------------|-----|
| 4.6.2.3 | Create-allocation | 114 |
| 4.6.2.4 | Create-format-statement | 114 |
| 4.6.2.5 | Create-remote-format | 115 |
| 4.6.2.6 | Create-format-iteration | 115 |
| 4.6.2.7 | Create-freeing | 115 |
| 4.6.2.8 | Create-if-statement | 116 |
| 4.6.2.9 | Create-balanced-unit | 116 |
| 4.6.2.10 | Create-leave-statement | 117 |
| 4.6.2.11 | Create-on-statement | 118 |
| 4.6.2.12 | Create-open-statement | 119 |
| 4.6.3 | Create-declaration | 119 |
| 4.6.3.1 | Create-named-constant | 120 |
| 4.6.3.2 | Create-variable | 120 |
| 4.6.3.3 | Create-bound-pair-list | 121 |
| 4.6.3.4 | Create-data-description | 122 |
| 4.6.3.5 | Create-data-type | 124 |
| 4.6.3.6 | Create-entry | 125 |
| 4.6.3.7 | Create-refer-option | 126 |
| 4.6.3.8 | Create-identifier | 126 |
| 4.6.3.9 | Create-initial | 126 |
| 4.6.3.10 | Create-array-init | 127 |
| 4.6.3.11 | Create-initial-element | 127 |
| 4.6.3.12 | Create-integer | 128 |
| 4.6.3.13 | Convert-named-literal | 128 |
| 4.6.3.14 | Check-arithmetic-type | 130 |
| 4.6.3.15 | Create-precision | 130 |
| 4.6.3.16 | Create-number-of-digits | 130 |
| 4.6.3.17 | Create-scale-factor | 131 |
| 4.6.4 | Create-expression | 131 |
| 4.6.5 | Create-reference | 134 |
| 4.6.5.1 | Collect-subscripts | 137 |
| 4.6.5.2 | Apply-subscripts | 138 |
| 4.6.5.3 | Create-value-reference | 139 |
| 4.6.5.4 | Trim-dd | 139 |
| 4.6.5.5 | Create-named-constant-reference | 139 |
| 4.6.5.6 | Create-argument-list | 140 |
| 4.6.5.7 | Create-builtin-function-reference | 141 |
| 4.6.5.8 | Create-pseudo-variable-reference | 142 |
| 4.6.5.9 | Create-entry-reference | 143 |
| 4.6.5.10 | Test-matching | 144 |
| 4.6.6 | Create-picture | 144 |
| 4.6.6.1 | Create-numeric-picture | 145 |
| 4.6.7 | Create-constant | 147 |
| 4.6.8 | Create-enquiry-reference | 149 |
| 4.6.8.1 | Create-arithmetic-enquiry-reference | 151 |
| 4.7 | Validation of the External Unit | 152 |
| 4.7.1 | Validate-declaration | 152 |
| 4.7.2 | Validate-automatic-declaration | 152 |
| 4.7.3 | Validate-based-declaration | 153 |
| 4.7.4 | Validate-defined-declaration | 154 |
| 4.7.5 | Validate-parameter-declaration | 154 |
| 4.7.6 | Validate-static-declaration | 154 |
| 4.7.7 | Validate-descriptor | 155 |
| 4.7.8 | Evaluate-restricted-expression | 155 |
| 4.7.9 | Apply-constraints | 156 |

| | | |
|-----------|---|------------|
| 4.7.10 | Test-constraints | 157 |
| 4.7.11 | Validate-leave-statements | 158 |
| 4.8 | Validate-program | 159 |
| 4.8.1 | Validate-external-declaration | 159 |
| 4.8.2 | Environment-names | 160 |
| 5. | The PL/I Interpreter | 161 |
| 5.1 | Introduction | 161 |
| 5.2 | The Interpretation-state | 161 |
| 5.2.1 | Directories | 161 |
| 5.2.2 | Block State | 161 |
| 5.2.3 | File Information | 163 |
| 5.2.4 | Storage and Values | 164 |
| 5.2.5 | Generations, Evaluated Data Descriptions, and Evaluated Targets | 165 |
| 5.2.6 | Dataset | 165 |
| 5.3 | Terminology and Definitions | 166 |
| 5.3.1 | Current | 166 |
| 5.3.2 | Block | 166 |
| 5.4 | The Interpret Operation and Interpretation State Initialization | 166 |
| 5.4.1 | Interpret | 166 |
| 5.4.2 | Initialize-interpretation-state | 167 |
| 5.4.3 | Build-file-directory-and-informations | 167 |
| 5.4.4 | Build-fdi | 168 |
| 5.4.5 | Allocate-static-storage-and-build-static-directory | 168 |
| 5.4.6 | Program-epilogue | 169 |
| 6. | Flow Of Control | 171 |
| 6.1 | Introduction | 171 |
| 6.2 | Program Activation and Termination | 171 |
| 6.2.1 | Program Termination | 171 |
| 6.2.1.1 | Execute-stop-statement | 172 |
| 6.2.1.2 | Stop-program | 172 |
| 6.3 | Block Activation and Termination | 172 |
| 6.3.1 | Activate-procedure | 172 |
| 6.3.1.1 | Install-arguments | 173 |
| 6.3.2 | Activate-begin-block | 173 |
| 6.3.3 | Prologue | 174 |
| 6.3.4 | Epilogue | 175 |
| 6.4 | Control within a Block | 175 |
| 6.4.1 | Normal-sequence | 176 |
| 6.4.1.1 | Advance-execution | 176 |
| 6.4.2 | Execute-executable-unit | 176 |
| 6.4.3 | Execute-begin-block | 177 |
| 6.4.4 | Execute-group | 177 |
| 6.4.4.1 | Establish-controlled-group | 178 |
| 6.4.4.2 | Initialize-spec-options | 178 |
| 6.4.4.3 | Test-spec | 180 |
| 6.4.4.4 | Advance-controlled-group | 180 |
| 6.4.5 | Execute-selection | 182 |
| 6.4.5.1 | Test-when-enablement | 182 |
| 6.4.5.2 | Test-when-matching | 183 |
| 6.4.6 | Execute-if-statement | 184 |
| 6.4.6.1 | Establish-truth-value | 184 |
| 6.4.7 | Execute-call-statement | 185 |

| | | |
|-----------|---|------------|
| 6.4.7.1 | Entry-references | 185 |
| 6.4.7.1.1 | Evaluate-entry-reference | 185 |
| 6.4.7.1.2 | Establish-argument | 186 |
| 6.4.8 | Execute-goto-statement | 187 |
| 6.4.8.1 | Local-goto | 188 |
| 6.4.8.2 | Trim-group-control | 188 |
| 6.4.9 | Execute-null-statement | 189 |
| 6.4.10 | Execute-return-statement | 189 |
| 6.4.11 | Execute-end-statement | 190 |
| 6.4.12 | Execute-leave-statement | 191 |
| 6.5 | Conditions and Interrupts | 191 |
| 6.5.1 | Conditions | 192 |
| 6.5.1.1 | Raise-condition | 192 |
| 6.5.1.2 | Test-enablement | 192 |
| 6.5.1.3 | Execute-signal-statement | 193 |
| 6.5.1.4 | Evaluate-named-io-condition | 194 |
| 6.5.2 | Interrupts | 194 |
| 6.5.2.1 | Execute-on-statement | 194 |
| 6.5.2.2 | Execute-revert-statement | 195 |
| 6.5.3 | Interrupt | 196 |
| 6.5.4 | System-action | 197 |
| 6.5.4.1 | Comment | 197 |
| 7. | Storage and Assignment | 199 |
| 7.1 | Introduction | 199 |
| 7.2 | The Generation | 200 |
| 7.2.1 | The Number of Elements in the Storage-index-list of a Generation | 200 |
| 7.2.2 | Correspondence between an Item-data-description and a Basic-value | 201 |
| 7.2.3 | Value of a Generation | 202 |
| 7.2.4 | Value of Storage Index | 202 |
| 7.3 | The Allocation of Storage | 203 |
| 7.3.1 | Execute-allocate-statement | 203 |
| 7.3.2 | Allocate-based-storage | 204 |
| 7.3.3 | Evaluate-in-option | 206 |
| 7.3.4 | Allocate | 206 |
| 7.3.5 | Evaluate-data-description-for-allocation | 208 |
| 7.3.6 | Find-directory-entry | 208 |
| 7.3.7 | Make-allocation-unit | 209 |
| 7.3.8 | Initialize-refer-options | 210 |
| 7.3.9 | Find-block-state-of-declaration | 211 |
| 7.3.10 | Construct-union-list | 211 |
| 7.4 | Initialization | 213 |
| 7.4.1 | Initialize-generation | 213 |
| 7.4.2 | Initialize-scalar-element | 214 |
| 7.4.3 | Initialize-array | 214 |
| 7.5 | The Freeing of Storage | 216 |
| 7.5.1 | Execute-free-statement | 216 |
| 7.5.2 | Free-based-storage | 216 |
| 7.5.3 | Deduce-in-option | 218 |
| 7.5.4 | Free | 218 |
| 7.6 | Assignment | 219 |
| 7.6.1 | The Assignment Statement | 219 |
| 7.6.2 | Target References | 220 |
| 7.6.2.1 | Evaluated Targets | 221 |
| 7.6.3 | The Assignment Operation | 222 |

| | |
|--|------------|
| 7.6.3.1 Promote-and-convert | 222 |
| 7.6.3.2 The Set-storage Operation | 223 |
| 7.6.3.3 Area-conversion | 224 |
| 7.6.3.4 Test-union-matching | 225 |
| 7.6.3.5 Set-union | 225 |
| 7.6.4 Pseudo-variables | 226 |
| 7.6.4.1 Exponent-pv | 226 |
| 7.6.4.2 Onsource-pv | 227 |
| 7.6.4.3 Pageno-pv | 228 |
| 7.6.4.4 String-pv | 228 |
| 7.6.4.5 Substr-pv | 229 |
| 7.6.4.6 Unspec-pv | 230 |
| 7.7 Variable-reference | 231 |
| 7.7.1 Evaluate-variable-reference | 231 |
| 7.7.1.1 Test Connectedness | 232 |
| 7.7.1.2 Test String Class | 233 |
| 7.7.2 Select-based-generation | 234 |
| 7.7.3 Check-based-reference | 234 |
| 7.7.4 Overlay-strings | 236 |
| 7.7.5 Evaluate-data-description-for-reference | 237 |
| 7.7.6 Select-qualified-reference | 238 |
| 7.7.7 Select-subscripted-reference | 239 |
| 7.7.8 Evaluate-defined-reference | 241 |
| 7.7.9 Evaluate-simply-defined-reference | 241 |
| 7.7.10 Evaluate-string-overlay-defined-reference | 242 |
| 7.7.11 Check-simply-defined-reference | 242 |
| 7.7.12 Extract-slice-of-array | 243 |
| 7.8 Reference to Named Constant | 244 |
| 7.8.1 Evaluate-named-constant-reference | 244 |
| 8. Input/Output | 247 |
| 8.1 Introduction | 247 |
| 8.2 Datasets | 247 |
| 8.2.1 Record Datasets | 247 |
| 8.2.2 Stream Datasets | 247 |
| 8.3 Files | 248 |
| 8.3.1 Record Files | 248 |
| 8.3.2 Stream Files | 248 |
| 8.4 I/O Conditions | 248 |
| 8.4.1 Raise-io-condition | 249 |
| 8.5 Evaluate-file-option | 249 |
| 8.6 File Opening and Closing | 250 |
| 8.6.1 The Open Statement | 250 |
| 8.6.1.1 Execute-open-statement | 250 |
| 8.6.1.2 Execute-single-opening | 250 |
| 8.6.1.3 Open | 251 |
| 8.6.1.4 Evaluate-title-option | 253 |
| 8.6.1.5 Evaluate-filename | 253 |
| 8.6.2 The Close Statement | 254 |
| 8.6.2.1 Execute-close-statement | 254 |
| 8.6.2.2 Execute-single-closing | 254 |
| 8.6.2.3 Close | 254 |
| 8.7 The Record I/O Statements | 255 |
| 8.7.1 The Read Statement | 255 |

| | | |
|-----------|--|-----|
| 8.7.1.1 | Execute-read-statement | 255 |
| 8.7.1.2 | Read | 256 |
| 8.7.2 | The Write Statement | 258 |
| 8.7.2.1 | Execute-write-statement | 258 |
| 8.7.2.2 | Write | 259 |
| 8.7.3 | The Rewrite Statement | 259 |
| 8.7.3.1 | Execute-rewrite-statement | 259 |
| 8.7.3.2 | Rewrite | 260 |
| 8.7.4 | The Delete Statement | 261 |
| 8.7.4.1 | Execute-delete-statement | 261 |
| 8.7.4.2 | Delete | 262 |
| 8.7.5 | Operations Applicable to Record I/O | 263 |
| 8.7.5.1 | Evaluate-from-option | 263 |
| 8.7.5.2 | Evaluate-into-option | 263 |
| 8.7.5.3 | Evaluate-pointer-set-option | 263 |
| 8.7.5.4 | Evaluate-key-option | 264 |
| 8.7.5.5 | Evaluate-keyfrom-option | 264 |
| 8.7.5.6 | Evaluate-keyto-option | 264 |
| 8.7.5.7 | Evaluate-sizeto-option | 265 |
| 8.7.5.8 | Construct-record | 265 |
| 8.7.5.9 | Insert-record | 265 |
| 8.7.5.10 | Position-file | 266 |
| 8.7.5.11 | Evaluate-size | 267 |
| 8.7.5.12 | Exit-from-io | 268 |
| 8.7.5.13 | Trim-io-control | 268 |
| 8.8 | The Stream I/O Statements | 269 |
| 8.8.1 | The Get Statement | 269 |
| 8.8.1.1 | Execute-get-statement | 269 |
| 8.8.1.2 | Execute-get-file | 269 |
| 8.8.1.3 | Execute-get-string | 270 |
| 8.8.1.4 | Get-list | 270 |
| 8.8.1.4.1 | Parse-list-input | 272 |
| 8.8.1.4.2 | Parsing Categories for List Directed Input | 273 |
| 8.8.1.5 | Get-edit | 273 |
| 8.8.1.5.1 | Execute-input-control-format | 274 |
| 8.8.1.5.2 | Execute-input-data-format | 275 |
| 8.8.1.5.3 | Validate-input-format | 277 |
| 8.8.1.6 | Input-stream-item | 278 |
| 8.8.1.7 | Basic-character-value | 279 |
| 8.8.1.8 | Basic-bit-value | 279 |
| 8.8.1.9 | Input-stream-item-for-edit | 280 |
| 8.8.2 | The Put Statement | 280 |
| 8.8.2.1 | Execute-put-statement | 280 |
| 8.8.2.2 | Execute-put-file | 281 |
| 8.8.2.3 | Execute-put-string | 281 |
| 8.8.2.4 | Put-list | 282 |
| 8.8.2.5 | Put-edit | 284 |
| 8.8.2.5.1 | Execute-output-control-format | 284 |
| 8.8.2.5.2 | Execute-output-data-format | 285 |
| 8.8.2.5.3 | Edit-numeric-output | 286 |
| 8.8.2.6 | Output-string | 288 |
| 8.8.2.7 | Output-string-item | 288 |
| 8.8.2.8 | Output-stream-item | 289 |
| 8.8.2.9 | Tab | 289 |
| 8.8.2.9.1 | Output-tab | 290 |

| | |
|---|------------|
| 8.8.2.10 Put-line | 290 |
| 8.8.2.11 Put-page | 291 |
| 8.8.3 Operations Applicable to Stream I/O | 291 |
| 8.8.3.1 Skip | 291 |
| 8.8.3.2 Evaluate-current-column | 292 |
| 8.8.3.3 Evaluate-current-line | 292 |
| 8.8.3.4 Establish-next-data-item | 293 |
| 8.8.3.4.1 Expand-edd | 295 |
| 8.8.3.4.2 Expand-generation | 295 |
| 8.8.3.5 Establish-next-format-item | 296 |
| 8.8.3.6 Evaluate-format-item | 297 |
| 8.8.3.6.1 Evaluate-format-expression | 297 |
| 9. Expressions and Conversion | 299 |
| 9.1 Introduction | 299 |
| 9.2 Aggregate Expressions | 299 |
| 9.2.1 Scalar and Aggregate Types | 299 |
| 9.2.1.1 Aggregate Type of a Data Description | 299 |
| 9.2.1.2 Scalar Elements | 300 |
| 9.2.1.3 Treatment of Scalars | 300 |
| 9.2.1.4 Compatibility | 300 |
| 9.2.1.5 Correspondence | 300 |
| 9.2.1.5.1 Correspondence of Scalar Elements | 300 |
| 9.2.1.5.2 Correspondence of Data Types | 300 |
| 9.2.1.5.3 Correspondence of Union Data Descriptions | 301 |
| 9.2.1.6 Generate-scalar-result | 301 |
| 9.2.2 Integer Type | 302 |
| 9.2.2.1 Evaluate-expression-to-integer | 302 |
| 9.2.3 Derived Data Types | 302 |
| 9.2.3.1 Derived Base and Scale | 303 |
| 9.2.3.2 Converted Precision | 303 |
| 9.2.3.3 Derived String Type | 304 |
| 9.2.3.4 Further Definitions for Character and Bit Strings | 304 |
| 9.2.4 Arithmetic Results | 305 |
| 9.2.4.1 Conditions in Expressions | 306 |
| 9.2.4.2 Operations Used in the Model of Floating-Point Arithmetic | 306 |
| 9.2.4.2.1 Chopped-result | 306 |
| 9.2.4.2.2 Composite-result | 307 |
| 9.2.4.2.3 Rounded-result | 308 |
| 9.2.4.2.4 Unconstrained-result | 310 |
| 9.2.4.2.5 Test-model-number | 310 |
| 9.2.4.2.6 Highest-positive-model-number | 311 |
| 9.2.4.2.7 Lowest-positive-model-number | 311 |
| 9.2.4.2.8 Lower-model-number | 311 |
| 9.2.4.2.9 Higher-model-number | 311 |
| 9.2.4.2.10 Model-base | 312 |
| 9.2.4.2.11 Model-precision | 312 |
| 9.2.4.2.12 Model-minimum-exponent | 312 |
| 9.2.4.2.13 Model-maximum-exponent | 312 |
| 9.2.5 Expressions | 313 |
| 9.2.6 Value References | 313 |
| 9.2.7 Constants | 314 |
| 9.2.8 Parenthesized Expressions | 314 |
| 9.2.9 Arguments | 314 |

| | |
|--|-----|
| 9.2.10 Enquiries | 314 |
| 9.3 Prefix Operators | 317 |
| 9.3.1 Prefix Expressions | 317 |
| 9.3.2 Definition of the Prefix Operators | 317 |
| 9.3.2.1 Prefix-minus | 317 |
| 9.3.2.2 Prefix-not | 318 |
| 9.3.2.3 Prefix-plus | 318 |
| 9.4 Infix Operators | 318 |
| 9.4.1 Infix Expressions | 319 |
| 9.4.2 Definition of the Infix Operators | 319 |
| 9.4.2.1 Infix-add | 319 |
| 9.4.2.2 Infix-and | 320 |
| 9.4.2.3 Infix-and-logical | 320 |
| 9.4.2.4 Infix-cat | 321 |
| 9.4.2.4.1 Concatenation of String Values | 321 |
| 9.4.2.5 Infix-divide | 321 |
| 9.4.2.6 Infix-eq | 322 |
| 9.4.2.6.1 Compare | 322 |
| 9.4.2.6.2 Non-trivial-basic-value-index | 326 |
| 9.4.2.7 Infix-ge | 326 |
| 9.4.2.8 Infix-gt | 327 |
| 9.4.2.9 Infix-le | 327 |
| 9.4.2.10 Infix-lt | 328 |
| 9.4.2.11 Infix-multiply | 328 |
| 9.4.2.12 Infix-ne | 329 |
| 9.4.2.13 Infix-or | 329 |
| 9.4.2.14 Infix-or-logical | 330 |
| 9.4.2.15 Infix-power | 330 |
| 9.4.2.16 Infix-subtract | 331 |
| 9.4.2.17 Infix-xor | 332 |
| 9.5 Built-in Functions | 332 |
| 9.5.1 Built-in Function Reference | 333 |
| 9.5.2 Special Terms Defined for Built-in Functions | 333 |
| 9.5.2.1 Definition of N | 333 |
| 9.5.2.2 The Arguments p and q | 334 |
| 9.5.2.2.1 Constraints on p and q | 334 |
| 9.5.2.2.2 Attributes of Result Determined by p and q | 334 |
| 9.5.3 Operations Used in Built-in Function Definitions | 334 |
| 9.5.3.1 Get-established-onvalue | 334 |
| 9.5.4 Definition of the Built-in Functions | 335 |
| 9.5.4.1 Abs-bif | 335 |
| 9.5.4.2 Acos-bif | 335 |
| 9.5.4.3 Add-bif | 336 |
| 9.5.4.4 Addr-bif | 336 |
| 9.5.4.5 Asin-bif | 336 |
| 9.5.4.6 Atan-bif | 337 |
| 9.5.4.7 Atand-bif | 338 |
| 9.5.4.8 Atanh-bif | 338 |
| 9.5.4.9 Binary-bif | 339 |
| 9.5.4.10 Bit-bif | 339 |
| 9.5.4.11 Bool-bif | 339 |
| 9.5.4.12 Ceil-bif | 340 |
| 9.5.4.13 Character-bif | 341 |
| 9.5.4.14 Collate-bif | 341 |
| 9.5.4.15 Copy-bif | 342 |

| | | |
|----------|-----------------|-----|
| 9.5.4.16 | Cos-bif | 342 |
| 9.5.4.17 | Cosd-bif | 343 |
| 9.5.4.18 | Cosh-bif | 343 |
| 9.5.4.19 | Currentsize-bif | 344 |
| 9.5.4.20 | Date-bif | 344 |
| 9.5.4.21 | Datetime-bif | 345 |
| 9.5.4.22 | Decimal-bif | 345 |
| 9.5.4.23 | Dimension-bif | 345 |
| 9.5.4.24 | Divide-bif | 346 |
| 9.5.4.25 | Edit-bif | 347 |
| 9.5.4.26 | Empty-bif | 347 |
| 9.5.4.27 | Every-bif | 348 |
| 9.5.4.28 | Exp-bif | 348 |
| 9.5.4.29 | Exponent-bif | 349 |
| 9.5.4.30 | Fileopen-bif | 349 |
| 9.5.4.31 | Fixed-bif | 350 |
| 9.5.4.32 | Float-bif | 350 |
| 9.5.4.33 | Floor-bif | 350 |
| 9.5.4.34 | Hbound-bif | 351 |
| 9.5.4.35 | High-bif | 352 |
| 9.5.4.36 | Identical-bif | 352 |
| 9.5.4.37 | Index-bif | 353 |
| 9.5.4.38 | Isochar-bif | 354 |
| 9.5.4.39 | Lbound-bif | 355 |
| 9.5.4.40 | Length-bif | 356 |
| 9.5.4.41 | Lineno-bif | 356 |
| 9.5.4.42 | Log-bif | 357 |
| 9.5.4.43 | Log10-bif | 357 |
| 9.5.4.44 | Log2-bif | 357 |
| 9.5.4.45 | Low-bif | 358 |
| 9.5.4.46 | Max-bif | 358 |
| 9.5.4.47 | Maxlength-bif | 359 |
| 9.5.4.48 | Min-bif | 360 |
| 9.5.4.49 | Mod-bif | 361 |
| 9.5.4.50 | Multiply-bif | 362 |
| 9.5.4.51 | Null-bif | 362 |
| 9.5.4.52 | Offset-bif | 362 |
| 9.5.4.53 | Oncode-bif | 363 |
| 9.5.4.54 | Onfile-bif | 363 |
| 9.5.4.55 | Onkey-bif | 363 |
| 9.5.4.56 | Onsource-bif | 364 |
| 9.5.4.57 | Pageno-bif | 364 |
| 9.5.4.58 | Pointer-bif | 365 |
| 9.5.4.59 | Prod-bif | 365 |
| 9.5.4.60 | Reverse-bif | 366 |
| 9.5.4.61 | Round-bif | 366 |
| 9.5.4.62 | Search-bif | 367 |
| 9.5.4.63 | Sign-bif | 368 |
| 9.5.4.64 | Sin-bif | 368 |
| 9.5.4.65 | Sind-bif | 369 |
| 9.5.4.66 | Sinh-bif | 369 |
| 9.5.4.67 | Some-bif | 370 |
| 9.5.4.68 | Sqrt-bif | 370 |
| 9.5.4.69 | String-bif | 371 |

| | | |
|--|---|------------|
| 9.5.4.70 | Substr-bif | 371 |
| 9.5.4.71 | Subtract-bif | 372 |
| 9.5.4.72 | Sum-bif | 372 |
| 9.5.4.73 | Tally-bif | 373 |
| 9.5.4.74 | Tan-bif | 374 |
| 9.5.4.75 | Tand-bif | 375 |
| 9.5.4.76 | Tanh-bif | 375 |
| 9.5.4.77 | Time-bif | 375 |
| 9.5.4.78 | Translate-bif | 376 |
| 9.5.4.79 | Trim-bif | 377 |
| 9.5.4.80 | Trunc-bif | 378 |
| 9.5.4.81 | Unspec-bif | 379 |
| 9.5.4.82 | Valid-bif | 380 |
| 9.5.4.83 | Verify-bif | 380 |
| 9.6 | Conversion | 381 |
| 9.6.1 | Conversion of Scalar Values | 381 |
| 9.6.1.1 | Informal Invocation of Convert | 384 |
| 9.6.1.2 | Convert-to-fixed | 384 |
| 9.6.1.3 | Convert-to-float | 385 |
| 9.6.1.4 | Convert-to-bit | 386 |
| 9.6.1.5 | Convert-to-character | 387 |
| 9.6.1.6 | Conversion to Float Decimal | 388 |
| 9.6.1.7 | Conversion from String or Picture to Arithmetic | 389 |
| 9.6.1.8 | Basic Numeric Value of a String | 389 |
| 9.6.1.9 | Evaluate-real-constant | 390 |
| 9.6.1.10 | Validate-offset | 391 |
| 9.6.2 | Numeric Pictures | 391 |
| 9.6.2.1 | Editing Numeric Pictures | 392 |
| 9.6.2.2 | Editing a Numeric Picture Field | 393 |
| 9.6.2.3 | Validity of a Numeric Pictured Value | 397 |
| 9.6.2.4 | Validity of a Field of a Numeric Pictured Value | 398 |
| Appendix A. Features New to This Revision Adopted from X3.53-1976 | | 399 |
| A.1 | Lexical Constructs | 399 |
| A.2 | Attributes and Declarations | 399 |
| A.3 | Program Structure and Control | 400 |
| A.4 | Storage Control | 400 |
| A.5 | Input/Output | 401 |
| A.6 | Expressions and Evaluation | 401 |
| A.7 | Pictures | 401 |
| A.8 | Built-in Functions and Pseudo-variables | 401 |
| A.9 | Conditions and Exception Handling | 403 |
| Appendix B. Features New to This Revision | | 405 |
| B.1 | Lexical Constructs | 405 |
| B.2 | Attributes and Declarations | 405 |
| B.3 | Program Structure and Control | 406 |
| B.4 | Storage Control | 407 |
| B.5 | Input/Output | 407 |
| B.6 | Expressions and Evaluation | 408 |
| B.7 | Pictures | 408 |
| B.8 | Built-in Functions and Pseudo-variables | 409 |
| B.9 | Enquiries | 410 |
| B.10 | Conditions and Exception Handling | 411 |

| | |
|--|------------|
| Appendix C. Clarifications and Restrictions from X3.74-1981 | 413 |
| Appendix D. Features of X3.53-1976 not Adopted in This Standard | 415 |
| D.1 Program Structure | 415 |
| D.1.1 Syntactic Restrictions | 415 |
| D.1.2 Semantic Restrictions | 415 |
| D.1.3 Features Excluded | 415 |
| D.2 Program Control | 416 |
| D.2.1 Syntactic Restrictions | 416 |
| D.2.2 Semantic Restrictions | 416 |
| D.2.3 Features Excluded | 416 |
| D.3 Storage Control Statements | 416 |
| D.3.1 Syntactic Restrictions | 416 |
| D.3.2 Semantic Restrictions | 416 |
| D.3.3 Features Excluded | 416 |
| D.4 Input/Output | 417 |
| D.4.1 Syntactic Restrictions | 417 |
| D.4.2 Semantic Restrictions | 417 |
| D.4.3 Features Excluded | 417 |
| D.5 Attributes and Pictures | 417 |
| D.5.1 Syntactic Restrictions | 417 |
| D.5.2 Semantic Restrictions | 418 |
| D.5.3 Features Excluded | 418 |
| D.6 Built-in Functions and Pseudo-variables | 418 |
| D.6.1 Syntactic Restrictions | 418 |
| D.6.2 Semantic Restrictions | 418 |
| D.6.3 Features Excluded | 419 |
| D.7 Expressions | 419 |
| D.7.1 Syntactic Restrictions | 419 |
| D.7.2 Semantic Restrictions | 419 |
| D.7.3 Features Excluded | 420 |
| D.8 Change in Intermediate Results | 420 |
| Appendix E. Incompatible Changes from X3.74-1981 | 421 |
| Appendix F. Rationale for Major Design Decisions | 423 |
| Index | 427 |

Figures

| | | |
|-----|--|-----|
| 1. | Example of Syntax Brackets. | 4 |
| 2. | The Prologue Operation. | 13 |
| 3. | Examples of Syntax. | 27 |
| 4. | An Example of an Operation Returning a Result. | 31 |
| 5. | An Example of an Operation Containing a Step-list and a Case-set. | 32 |
| 6. | Example Showing <operation-list>s of a <machine-state>. | 38 |
| 7. | The Structure of a Simple <translation-unit>. | 53 |
| 8. | The Structure of an <if-statement>. | 54 |
| 9. | The Structure of an <expression>. | 55 |
| 10. | The Structure of a <do-statement>. | 56 |
| 11. | Examples of Abstract Text. | 74 |
| 12. | Table of <bit-values> as a Function of <symbols> and <radix-factors> for CREATE-CONSTANT. | 149 |
| 13. | An Example of <generation>s and <basic-value>s of Defined Variables. | 204 |
| 14. | Table of Converted Precisions as a Function of Target and Source Attributes. | 304 |
| 15. | An Example of Optional Arguments. | 333 |
| 16. | Table of Scalar-results as a Function of <bit-values> for BOOL-BIF. | 340 |
| 17. | An Example of the BOOL Built-in Function. | 340 |
| 18. | An Example of the COPY Built-in Function. | 342 |
| 19. | An Example of the DIMENSION Built-in Function. | 346 |
| 20. | Examples of the INDEX Built-in Function. | 354 |
| 21. | Some Examples of the MAXLENGTH Built-in Function. | 360 |
| 22. | Some Examples of the TALLY Built-in Function. | 374 |
| 23. | An Example of the TRANSLATE Built-in Function. | 377 |
| 24. | An Example of the TRIM Built-in Function. | 378 |
| 25. | Examples of the VERIFY Built-in Function. | 381 |
| 26. | Table of Terminal Nodes of <symbols> as a Function of <suppression-type> for EDIT-NUMERIC-PICTURE-FIELD | 397 |

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 6522 was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*.

This second edition cancels and replaces the first edition (ISO 6522:1985), which has been technically revised.

Annexes A to F of this International Standard are for information only.

Terminology and conventions

The text of American National Standard ANSI X3.74-1987 has been approved for publication, without deviation, as an International Standard. Some terminology and certain conventions are not in accordance with the ISO/IEC Directives Part 3: "Drafting and presentation of International Standards"; attention is especially drawn to the following:

Wherever the word "standard" appears, referring to this International Standard, it should be read as "International Standard".

Cross-reference

| American National Standard | Corresponding International Standard |
|----------------------------|---|
| ANSI X3.134.1 | ISO/IEC 4873:1991, <i>Information technology — ISO 8-bit code for information interchange — Structure and rules for implementation.</i> |
| ANSI X3.4-1986 | ISO/IEC 646:1991, <i>Information technology — ISO 7-bit coded character set for information interchange.</i> |
| ANSI X3.41-1974 | ISO 2022:1986, <i>Information processing — ISO 7-bit and 8-bit coded character sets — Coded extension techniques.</i> |
| ANSI X3.53-1976 | ISO 6160:1979, <i>Programming languages — PL/I.</i> |

Information technology — Programming languages — PL/I general purpose subset

1. Scope and Overviews

1.1 Scope

This document defines the computer programming language PL/I General Purpose Subset, referred to in most of this definition simply as “PL/I”. It is intended to serve as an authoritative reference rather than as a tutorial introduction.

The language defined by this document is different from those of previous PL/I standards, although substantially upward compatible, at the source program and semantic level. The differences are summarized in Appendix A. The text that follows defines standard PL/I in terms of an extended reference PL/I language. The extended reference PL/I language contains operations and portions of operations that are not accessed by PL/I programs that conform to this standard. Those features that are implied by the reference language but for which support is not required of conforming processors are retained for convenience of PL/I implementations containing extensions beyond this standard and for definitional compatibility with earlier PL/I standards (see Appendix A).

As explained in more detail in Section 1.5, this standard specifies the syntax and semantics of conforming PL/I programs. It makes no proscriptive statements about the syntax or semantics of non-conforming programs. It defines a conforming processor (or conforming implementation) only in terms of those conforming programs: a conforming processor is one that, subject to the flexibilities and requirements of Section 1.5, gives all conforming programs the interpretations specified by this definition.

The definition is accomplished by specifying a conceptual PL/I machine which translates and interprets intended PL/I programs. Section 1.4 provides a brief introduction to the statements and data types included in the language, to the structure and use of the document, and to the method of definition. The relationship between an actual implementation and the conceptual machine of this document is described in Section 1.5, and the detailed specification of the notation to be used follows in Section 1.6. The main body of the definition is then begun at Section 1.7, and is completed by Chapters 2 through 9.

1.2 Referenced Publications

This standard shall be used in conjunction with the following publications. When the following American National Standards are superseded by a revision approved by the American National Standards Institute, Inc., the revision shall apply.

ISO/IEC 6522:1992 (E)

- ANSI X3.134.1, Information Systems - 8-bit ASCII - Structure and Rules (under development)

Note: For international use, ISO 4873-1984 or its successors should be substituted.

- ANSI X3.4-1986, Information Systems - Coded Character Set - 7-Bit American National Standard Code for Information Interchange

Note: For international use, ISO 646-1983 or its successors should be substituted.

- ANSI X3.41-1974, Information Systems - Code Extension Techniques for Use with the 7-bit Coded Character Set of American National Standard Code for Information Interchange (ASCII)

Note: For international use, ISO 2022-1986 or its successors should be substituted.

- ANSI X3.53-1976 (R 1987), Programming Language PL/I

Note: Identical to ISO 6160-1979.