INTERNATIONAL STANDARD

IEC 61926-1

First edition
1999-10

Design automation –

Part 1:
Standard test language for all systems – Common abbreviated test language for all systems (C/ATLAS)

Automatisation de la conception –

Partie 1:
Langage de test normalisé pour tout système – Langage de test commun/abrégé pour tout système (C/ATLAS)

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

PRICE CODE XH

For price, see current catalogue

Contents

Clause Page

1.0 Scope and object 12

2.0 Normative references 13
2.1 References 13
2.2 Document precedence 14
2.3 Document organization and conventions 14
2.3.1 Extensibility 14
2.3.2 Organization of syntax specification 14
2.3.3 Guide to the use of the C/ATLAS language 15

3.0 Complete C/ATLAS test program 16
3.1 <complete atlas test program structure> 16
3.1.1 <atlas program structure> 16
3.1.2 <atlas module structure> 17
3.1.3 <non-atlas module structure> 17
3.2 Basic statement elements 17
3.2.1 Flag field 18
3.2.2 Statement number field 18
3.2.3 Verb field 18
3.2.4 Field separator 18
3.2.5 Remainder of statement 18
3.2.6 Statement terminator ($) 18

4.0 Structure delimiter statements 19
4.1 BEGIN/TERMINATE statements 19
4.1.1 BEGIN, ATLAS PROGRAM statement 19
4.1.2 TERMINATE, ATLAS PROGRAM statement 19
4.1.3 BEGIN, ATLAS MODULE statement 20
4.1.4 TERMINATE, ATLAS MODULE statement 21

5.0 Reserved for future use 22

6.0 Preamble statements 23
6.1 Main preamble structure 23
6.1.1 <program preamble structure> 23
6.1.2 <module preamble structure> 24
6.2 <local preamble structure> 25
6.3 DECLARE statement 26
6.4 DEFINE statements definition 37

Clause Page

6.5 DEFINE <signal> statement ... 38
6.6 PROCEDURE definition ... 42
6.6.1 <define procedure structure> ... 42
6.6.2 DEFINE PROCEDURE statement ... 43
6.6.3 PROCEDURE body ... 44
6.6.4 LEAVE <procedure> statement ... 45
6.6.5 END PROCEDURE statement ... 46
6.7 REQUIRE statement ... 46
6.8 INCLUDE statement ... 51
6.9 IDENTIFY statements ... 52
6.10 IDENTIFY TIMER statement ... 53
6.11 IDENTIFY SIGNAL BASED EVENT statement ... 53
6.12 IDENTIFY EVENT BASED EVENT statement ... 56
6.13 IDENTIFY EVENT INTERVAL statement ... 57
6.14 IDENTIFY EVENT INDICATOR statement ... 59
6.15 IDENTIFY TIME BASED EVENT statement ... 60
6.16 DIGITAL CONFIGURATION definition ... 60
6.17 EXTEND statement ... 77
6.18 ESTABLISH PROTOCOL statement ... 83
6.19 DEFINE EXCHANGE statement ... 90
6.20 DEFINE DIGITAL TIMING statement ... 94
6.21 COMPLEX SIGNAL definition ... 96
6.22 DEFINE EXCHANGE-CONFIGURATION statement ... 111
7.0 Procedural structure ... 112
7.1 <main procedural structure> ... 112
7.2 <main procedural statements> ... 112
8.0 Procedural statements, data processing ... 114
8.1 CALCULATE statement ... 114
8.2 COMPARE statement ... 127

Clause Page
9.0 Procedural statements, input/output 128
9.1 INPUT statement 128
9.2 OUTPUT statement 133
9.3 ENABLE FILE ACCESS statement 138
9.4 DISABLE FILE ACCESS statement 139
10.0 Procedural statements, control 140
10.1 IF THEN ELSE capability 141
10.1.1 IF THEN ELSE structure 141
10.1.2 IF THEN statement 143
10.1.3 <procedural segment if then else> 144
10.1.4 LEAVE, IF statement 145
10.1.5 ELSE statement 145
10.1.6 END, IF statement 146
10.2 WHILE THEN capability 147
10.2.1 WHILE THEN structure 147
10.2.2 WHILE THEN statement 148
10.2.3 <procedural segment while then> 149
10.2.4 LEAVE, WHILE statement 149
10.2.5 END, WHILE statement 150
10.3 FOR THEN capability 151
10.3.1 FOR THEN structure 151
10.3.2 FOR THEN statement 152
10.3.3 <procedural segment for then> 154
10.3.4 LEAVE, FOR statement 155
10.3.5 END, FOR statement 155
10.4 GO TO statement 156
10.5 PERFORM statement 157
10.6 FINISH statement 158
10.7 ENABLE DIGITAL CONFIGURATION statement 158
10.8 DISABLE DIGITAL CONFIGURATION statement 159
10.9 Escape structure 160
10.9.0 <escape structure> 160
10.9.1 ENABLE ESCAPE TO PROCEDURE statement 160
10.9.2 DISABLE ESCAPE TO PROCEDURE statement 162
11.0 Signal oriented statements 164
11.1 <procedural statements signal> 164
11.2 Single-action statements 173
11.2.1 General description 173
11.2.2 SETUP statement 178
11.2.3 CONNECT statement 179
11.2.4 DISCONNECT statement 181
11.2.5 ARM statement 182
11.2.6 FETCH statement 184

Clause Page

11.2.7 CHANGE statement 185
11.2.8 ENABLE EVENT statement 187
11.2.9 DISABLE EVENT statement 187
11.2.10 ENABLE COMPLEX SIGNAL statement 188
11.2.11 DISABLE COMPLEX SIGNAL statement 189
11.2.12 RESET statement 189
11.3 Multiple-action statements 191
11.3.1 General description 191
11.3.2 APPLY statement 191
11.3.3 REMOVE statement 192
11.3.4 MEASURE statement 194
11.3.5 MONITOR statement 195
11.3.6 VERIFY statement 196
11.3.7 READ statement 197
11.3.8 INITIATE statement 198
11.4 Digital statements 199
11.4.1 General description 199
11.4.2 STIMULATE statement 200
11.4.3 SENSE statement 202
11.4.4 PROVE statement 204
12.0 Procedural statements, timing 208
12.1 Timing statements (general) 208
12.2 READ TIMER statement 208
12.3 WAIT FOR statement 209
12.4 RESET TIMER statement 210
12.5 DO/END DO capability 211
12.5.1 <do simultaneous structure> 211
12.5.2 DO SIMULTANEOUS statement 212
12.5.3 <do simultaneous body> 213
12.5.4 END DO statement 214
12.5.5 <do timed digital structure> 214
12.5.6 DO TIMED DIGITAL statement 214
12.5.7 <do timed digital body> 217
13.0 Procedural statements, databus 221
13.1 <procedural statement databus> 222
13.2 DO EXCHANGE statement 223
13.3 UPDATE EXCHANGE-CONFIGURATION statement 231
13.4 FETCH EXCHANGE-CONFIGURATION statement 233
13.5 ENABLE EXCHANGE-CONFIGURATION statement 235
13.6 CONNECT EXCHANGE-CONFIGURATION statement 237
13.7 DISCONNECT EXCHANGE-CONFIGURATION statement 237
13.8 DISABLE EXCHANGE-CONFIGURATION statement 238

Clause Page
14.0 Field and subfield definition ... 240
14.1 <statement characteristics> ... 240
14.2 <real characteristic subfield> ... 241
14.3 <digital characteristic subfield> ... 244
14.4 <sync subfield> ... 244
14.5 <real errlim> (real error limit) ... 246
14.6 <measured characteristic> ... 248
14.7 <evaluation field> ... 250
14.8 <eval statement characteristics> (evaluation statement characteristics) ... 254
14.9 <max time> ... 254
14.10 <time quantity> ... 255
14.11 <condition> ... 255
14.12 <conn> (connection field) ... 256
14.13 <conn set> (connection set) ... 256
14.14 <signal value> ... 263
14.15 <real quantity> ... 264
14.16 <index> ... 265
14.17 <noun field> ... 265
14.18 <dimensioned number> ... 266
14.19 <require control> ... 266
14.20 <require capability> ... 267
14.21 <require limit> ... 268
14.22 <require cnx> ... 269
14.23 <digital quantity> ... 269
14.24 <data store> ... 270
14.25 <array range> ... 270
14.26 <parameter> ... 272
14.27 <gate field> ... 272
14.28 <stim rate> ... 274
14.29 <sense rate> ... 274
14.30 <sense delay> ... 274
14.31 <stim event> ... 275
14.32 <sense event> ... 276
14.33 <when field> ... 276
14.34 <digital source characteristics> ... 277
14.35 <digital sensor characteristics> ... 278
14.36 <on field> ... 279
14.37 <exchange expression> ... 279
14.38 <exchange frame> ... 281
14.39 <bus parameter> ... 283
14.40 <set protocol parameter> ... 284
14.41 <role field> ... 286
14.42 <command field> ... 287

Clause Page
14.43 <data field> ... 288
14.44 <status field> ... 289
14.45 <mark descriptor subfield> ... 290
14.46 <proportionality subfield> ... 293
14.47 <sweep configuration subfield> ... 295
14.48 <fetch protocol parameter> ... 299
14.49 <databus fetch data> ... 301
14.50 <file> ... 302
15.0 Language component specification ... 303
15.1 Authorized characters ... 303
15.2 Number representations ... 303
15.2.1 <decimal number> ... 304
15.2.2 <unsigned decimal number> ... 304
15.2.3 <unsigned integer number> ... 305
15.2.4 <digital number> ... 305
15.2.5 <long decimal number> ... 305
15.3 Flag and statement numbers ... 305
15.3.1 <fstatno> ... 305
15.3.2 Flag ... 306
15.3.3 <statement number> ... 307
15.4 Blank space requirements ... 308
15.5 <label> ... 308
15.6 Retention of labelled information ... 310
15.6.1 Scope of labels and identifiers ... 310
15.6.2 Retention of measured sensor values ... 310
15.6.3 <label> for DEFINE and IDENTIFY statement ... 310
15.6.4 <parameter> ... 311
15.6.5 <data store> ... 311
15.6.6 Condition identifiers ... 311
15.6.7 Other variables ( ) ... 312
15.6.8 <requirement> ... 312
15.6.9 <exchange> ... 312
15.6.10 <complex signal> ... 312
15.7 Range subfield ... 312
15.7.1 Range requirement for <data store> or <parameter> ... 312
15.8 Dimensions ... 313
15.8.1 Units of rate of change ... 313
15.8.2 Units ... 318
15.8.3 Power dimensions ... 318
15.8.4 ISO characters ... 318
15.8.5 <dim> ... 318
15.8.6 <freq dimension> ... 318
15.8.7 <time dimension> ... 318

Clause Page
15.9 Character code definitions 318
15.10 Special character sets 323
15.10.1 <character string> 323
15.10.2 <message text> 323
15.10.3 <letter> 323
15.10.4 <digit> 323
15.10.5 <modifier descriptor> 323
15.10.6 <module name> 323
15.10.7 <program name> 323
15.10.8 <extend label> 323
15.11 Miscellaneous language elements 324
16.0 Nouns and their modifiers 330
16.1 AC SIGNAL (alternating current signal) 331
16.2 ADF (automatic direction finder) 333
16.3 AM SIGNAL (amplitude modulation signal) 333
16.4 AMBIENT CONDITIONS 334
16.5 ATC (air traffic control) 336
16.6 COMMON 338
16.7 COMPLEX SIGNAL <complex signal> 340
16.8 DC SIGNAL (direct current signal) 342
16.9 DISPLACEMENT 343
16.10 DME (distance measuring equipment) 343
16.11 DOPPLER 344
16.12 EARTH 345
16.13 EM FIELD (electro magnetic field) 345
16.14 EVENTS 346
16.15 FLUID SIGNAL 346
16.16 FM SIGNAL (frequency modulation signal) 348
16.17 HEAT 348
16.18 IFF (identification, friend or foe) 349
16.19 ILS (instrument landing system) 351
16.20 IMPEDANCE 353
16.21 LIGHT 354
16.22 LOGIC CONTROL 354
16.23 LOGIC DATA 357
16.24 LOGIC LOAD 364
16.25 LOGIC REFERENCE 364
16.26 MANOMETRIC 366
16.27 PAM (pulse amplitude modulation) 366
16.28 PM SIGNAL (phase modulated signal) 367
16.29 PULSED AC (pulsed alternating current signal) 368
16.30 PULSED AC TRAIN 369
16.31 PULSED DC (pulse direct current signal) 372

Clause Page
16.32 PULSED DC TRAIN ... 372
16.33 PULSED DOPPLER ... 375
16.34 RADAR SIGNAL ... 376
16.35 RAMP SIGNAL ... 377
16.36 RANDOM NOISE ... 377
16.37 RESOLVER ... 378
16.38 ROTATION ... 378
16.39 SHORT ... 383
16.40 SQUARE WAVE ... 384
16.41 STEP SIGNAL ... 384
16.42 SUP CAR SIGNAL (suppressed carrier signal) ... 385
16.43 SYNCHRO ... 386
16.44 TACAN (tactical air navigation) ... 386
16.45 TIME INTERVAL ... 392
16.46 TRIANGULAR WAVE SIGNAL ... 392
16.47 TURBINE ENGINE DATA ... 393
16.48 VIBRATION ... 394
16.49 VOR (VHF omnidirectional radio range) ... 395
16.50 WAVEFORM ... 397
17.0 Noun modifier definitions ... 401
17.1 Mnemonics for pulse-type signals ... 401
17.2 Modifier prefixes and suffixes ... 402
17.2.1 Pressure and temperature prefixes ... 402
17.2.2 Amplitude modifier suffixes ... 402
17.2.3 Phase identifier suffixes ... 404
17.2.4 Distance suffixes ... 405
17.2.5 Angle suffixes ... 405
17.2.6 Pulse identifier suffix ... 405
17.2.7 Reference identifier suffix ... 405
17.2.8 Composite vector suffixes ... 406
17.2.9 Quiescent signal suffix ... 406
17.2.10 Bi-phase digital signal suffixes ... 407
17.2.11 Bandwidth prefixes ... 407
17.3 Digital noun-modifiers ... 407
17.4 Noun modifiers ... 407
17.5 Function and function characteristics ... 457
17.6 Keyword definitions for the <specify signal conditioning statement> ... 461
17.7 Keyword definitions for the <mark descriptor subfield> ... 463
17.8 Keyword definitions for the <sweep configuration subfield> ... 464
17.9 Keyword definitions for the <step sweep descriptor> ... 465
18.0 Standard C/ATLAS syntax ... 467
18.1 Introduction ... 467
18.1.1 Purpose ... 467

Clause Page

18.1.2 Organization 467
18.1.3 References to the formal syntax definition 468
18.2 Syntax notation 469
18.2.1 Syntax language elements 469
18.2.2 Structure of a meta-program 470
18.2.3 Rule bodies 470
18.3 Program structure syntax 473
18.3.1 Range and order of the definition 474
18.3.2 Name conventions 474
18.4 Statements and field syntax 474
18.4.1 Range and order of the definition 474
18.4.2 Name conventions 474
18.4.3 Notes 475
18.5 Lexical symbols syntax 475
18.5.1 Range and order of the definition 475
18.5.2 Name conventions 476
18.5.3 Classes of lexical symbols 477
18.6 Syntax definition 478
18.6.1 Complete C/ATLAS test program 478
18.6.2 Structure delimiter statements 478
18.6.3 Preamble statements 479
18.6.4 Procedural structure 491
18.6.5 Procedural statementsódata processing 491
18.6.6 Procedural statementsóinput/output 492
18.6.7 Procedural statementsócontrol 493
18.6.8 Procedural statementsósignal 496
18.6.9 Procedural statementsótiming 500
18.6.10 Procedural statementsódatabus 502
18.6.11 Fields and subfields 504
18.6.12 Basic symbols and character sets 512
18.6.13 Identifiers and labels 514
18.6.14 Separators and statement-numbers 517
18.6.15 Operators 517
18.6.16 Descriptors 518
18.6.17 Nouns 519
18.6.18 Noun-modifiers 521
18.6.19 Noun-modifier prefixes and suffixes 525
18.6.20 Dimensions 526
18.6.21 Abbreviations 528
18.7 Cross-reference listings of syntax variables and symbols 529
18.7.1 Cross-reference list of rule names 529
18.7.2 Cross-reference list of literal symbols 549
19.0 Bibliography 602

INTERNATIONAL ELECTROTECHNICAL COMMISSION

DESIGN AUTOMATION –

Part 1: Standard test language for all systems – Common abbreviated test language for all systems (C/ATLAS)

FOREWORD

1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.

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International Standard IEC 61926-1 has been prepared by IEC technical committee 93: Design automation.

This standard is based on IEEE Std 716-1995.

IEC 61926 consists of the following parts, under the general title *Design automation:*

– Part 1:1999, Standard test language for all systems – Common abbreviated test language for all systems (C/ATLAS)

– Part 1-1:1999, Harmonization of ATLAS test languages

This standard does not follow the rules for the structure of international standards given in Part 3 of the ISO/IEC Directives.

The text of this standard is based on the following documents:

FDIS	Report on voting
93/106/FDIS	93/111/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

1.0 Scope and object

This standard defines a high order language for testing. This language is designed to describe tests in terms that are independent of any specific test system. It has been constrained to ensure that it can be implemented on Automatic Test Equipment (ATE).

Language processors conforming to this standard shall support all capabilities as specified within C/ATLAS down to the level of nouns, modifiers, dimensional units and pin descriptors. In addition, this support shall include all nouns, modifiers, dimensional units and pin descriptors that are necessary to support the target ATE.

2.0 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of IEC and ISO maintain registers of currently valid International Standards.

2.1 References

ANSI X3.4 1986 (R1992), Coded Character Set 7-Bit American National Standard Code for Information Interchange (ASCII).

ARINC 570, Automatic Direction Finder.

ARINC 572 and 711, Transponder and VOR Receiver.

ARINC 573, Aircraft Integrated Data Systems Mark 2 (AIDS) for the NRZ Code.

ARINC 575, Sub Sonic Air Data Systems, Bi-Polar RZ Pulse Class.

ARINC 578, Instrument Landing System.

ARINC 579, VHF Omnidirectional, Radio Range.

IEEE Std 100-1992, The New IEEE Dictionary of Electrical and Electronics Terms (ANSI).

IEEE Std 771-1989, IEEE Guide to the Use of the ATLAS Specification (ANSI).

ISO 1000:1992, SI units and recommendations for the use of their multiples and of certain other units.

ISO/IEC 646:1991, Information technology – ISO 7-bit coded character set for information interchange.

ITU-T Recommendation G.702:1988, Digital hierarchy bit rates. Entry No. 8003, AMI Pulse Class, and Entry No. 8005, HDB Pulse Class.

MIL-A-28826, Antenna System, Broadband Identification Friend or Foe, 3 May 1976.