

Whetstone Algol Translator - Error Numbers

This is Appendix G from the English Electric *Algol Users' Manual*.

Fail No.	Meaning
0	adjacent delimiters inadmissable
1	constant before := or [
2	illegal form of parameter
3	switch misplaced
4	constant used as statement
5	identifier or constant must not follow) or]
6	translated program (object programm) > 8,192 words
7	block head must end with semicolon
8	relation on each side of simple arithmetic expression
9	illegal statement – delimiter misused
10	declaration starts incorrectly
11	error between for and :=
12	adjacent delimiters inadmissible
13	; misused in array declaration
14	switch declaration ends incorrectly
15	declaration without identifier
16	:= preceded by constant or used inside an expression
17	identifier inconsistently used
18	end misused
19	local identifier used in array bound
20	goto must not follow an identifier or constant
21	wrong for clause preceding do
22	underline misused
23	parameters or dimensions missing
24	Boolean constant cannot be used here
25	non type procedure as function designator
26	assignment to procedure identifier outside procedure body
27	real , integer or Boolean misplaced
28	illegal form of parameter

29	blank parameter
30	; misused
31	wrong number of subscripts or parameters
32	:= illegal in type or array declaration
33	statement ends incorrectly
34	declaration follows statement
35	: , goto or for used in expression
36	redeclaration of identifier
37	own misplaced
38	non type procedure as function designator
39	procedure identifier inconsistently used
40	identifier inconsistently used
41	adjacent arithmetic operators
42	wrong use of delimiter
43	relation or logical operator used as an arithmetic operator
44	illegal use of logical operator
45	string , label ,] , KDF9 , ALGOL , EXIT , * , value or em misplaced
46	omission or error preceded begin , or begin follows :=
47	(misplaced
48	(must not appear in a type declaration
49	misused (in array or switch declaration
50	function designator as designational expression
51	: in type or switch declaration
52	misplaced declarator
53	subscripted variable as statement
54	local identifier used in array bound
55	:= must not appear in actual parameter list
56	misused comma or colon in an expression
57	if misused
58	if must not be used in a type declaration
59	corresponding if has been omitted or conditional expression without an else
60	corresponding then missing
61	code procedures not allowed
62	too many own scalar or array identifiers
63	too many scalars, array identifiers of formal parameters in current block or procedure
64	more than 63 blocks nested within each other
65	illegal use of operator in a switch declaration or a designational expression

66	no assignment to procedure identifier within body of type procedure
67	should be own real array
68	array misplaced
69	wrong own array bound
70	wrong delimiter used in own array bound
71	own array bound must be an integer
72	own array bound must be an integer
73	[misused
74	wrong delimiter used in own array bound
75	wrong own array bound
76	left square bracket must be preceded by an identifier
77	unmatched closing square bracket
78	upper bound missing in array declaration
79	comma misused in switch declaration
80	illegal type declaration
81	illegal array list
82	corresponding for missing
83	:= omitted from for clause
84	step , until or while misused in for list element
85	misused) other than in expression
86	unmatched closing round bracket
87	illegal parameter list
88	current use of procedure identifier not consistent with previous uses
89	wrong delimiter after procedure statement
90	non type procedure as function designator
91	error before procedure
92	repeated formal parameter
93	wrong formal parameter delimiter
94	identifier not in formal part but appearing in the value or specification part
95	wrong delimiter in value or specification part
96	wrong delimiter in specification part or specification part omitted
97	constant should not be used in procedure heading
98	wrong specification part
99	wrong specification part
100	wrong value or specification part
101	wrong delimiter in value or specification part
102	colon in subscript expression

103	formal parameter has not appeared in the specification part
104	declaration terminated by end
105	identifier specified to be a procedure, switch or a string must not appear in the value part
106	switch designator has more than one subscript
107	wrong for clause
108	misused comma in array declaration
109	then misused
110	wrong for clause
111	current use of identifier inconsistent with previous uses
112	until missing after step
113	illegal number
114	conditional expression needs parentheses
115	wrong delimiter after procedure identifier in procedure declaration
116	identifier or constant not as expected
117	comment does not follow ; or begin
118	true or false must not follow identifier or constant
119	letter, digit, . or 10 misused
120	no ; between formal parameter part and value or specification part
121	integer number too big
122	real number too big
123	commas or colons wrong in array bounds
124	<i>No entry is given, but the translator contains code to give this error report</i>
125	illegal parameter comment
126	illegal underlined word
127	[must be the first symbol of actual parameter
128	illegal parameter delimiter after string
129	integer labels not allowed
130	non type input/output procedure used as function designator
131	underlined space or tab or illegal paper tape character
132	parity fail
133	em appears inside program
134	time limit expired, machine failure, etc (even restart)
135	illegal character in string
136	operator intervention (odd restart)
137	illegal description of code body
138	EXIT or ALGOL or parameter calls not followed by or preceded by ; or CR-LF in

130	Code Body for array parameter
139	<i>N</i> negative (block level). (machine failure).
140	title of ALGOL program too long or does not end with em
141	illegal parameter call in code body. (identifier not a parameter or identifier not followed by closing string quote)
142	identifier specified to be a procedure or a switch not allowed as parameters of code procedures
143	too many code procedures (only 7890 allowed)
144	illegal ALGOL basic symbol (machine or POST failure)
145	no EM (em) after program
511	Nest not empty, Return to main loop
999	P127 (Binary to integer routine) tries to convert a negative number

Whetstone Algol Controller - Error Numbers

This is Appendix 2 from the English Electric *Service Routine Library Manual*.

U N D E R C O N S T R U C T I O N

Fail No.	Meaning
0	Machine Compiler (non-existent operation)
1	KDF9 too small
2	Expression in an if clause not boolean
3	Incorrect number of parameters in a procedure call
4	Left and right-hand sides not compatible
5	Variables in left part list of differing types
6	Integer overflow
7	Integer assigned to real actual parameter called by name
8	Real assigned to integer actual parameter called by name
9	Actual parameter incompatible with formal parameter used in an expression
10	Invalid actual parameter corresponding to real formal parameter used in an expression (call by name)
11	Invalid actual parameter corresponding to integer formal parameter used in an expression (call by name)
12	Integer overflow in converting real actual parameter corresponding to integer formal parameter (call by name)
13	Arithmetic actual parameter corresponding to boolean formal parameter (call by name)/TD>
14	Algebraic actual parameter corresponding to label formal parameter (call by name)
15	Invalid actual parameter corresponding to real formal parameter used in an expression (call by value)
16	Invalid actual parameter corresponding to integer formal parameter used in an expression (call by value)
17	Integer overflow in converting real actual parameter corresponding to integer formal parameter (call by value)
18	Arithmetic actual parameter corresponding to boolean formal parameter (call by value)/TD>
19	Algebraic actual parameter corresponding to label formal parameter (call by value)

20	Actual parameter should be real array
21	Actual parameter should be integer array
22	Actual parameter should be boolean array
23	Actual parameter should be procedure
24	Actual parameter should be real procedure
25	Actual parameter should be integer procedure
26	Actual parameter should be boolean procedure
27	Actual parameter should be string
28	Actual parameter should be switch
29	Actual parameter not arithmetic
30	Actual parameter not boolean
31	Actual parameter not label
32	Array bound not arithmetic
33	Lower bound exceeds upper bound
34	Integer overflow in converting real bound
35	Integer overflow in converting real subscript
36	Subscript not arithmetic
37	Incorrect number of subscripts to formal array
38	Subscripted variable outside array limits
39	Integer overflow in converting real array to integer
40	Actual parameter corresponding to real formal array should be arithmetic array
41	Actual parameter corresponding to integer formal array should be arithmetic array
42	Actual parameter should be boolean array
43	Out-of-range switch index
44	Operand of unary minus not arithmetic
45	Real overflow - unary minus
46	Integer overflow - unary minus
47	Operant of not is not boolean
48	Operands of integer divide (\div) not integers
49	Zero divisor to integer divide (\div)
50	Operands of and not boolean
51	Operands of or not boolean
52	Operands of imp not boolean
53	Operands of eqv not boolean
54	Operands of + not arithmetic
55	Operands of – not arithmetic
56	Operands of × not arithmetic

57	Operands of $<$ not arithmetic
58	Operands of \leq not arithmetic
59	Operands of $=$ not arithmetic
60	Operands of \geq not arithmetic
61	Operands of $>$ not arithmetic
62	Operands of \neq not arithmetic
63	Real overflow on $+$
64	Real overflow on $-$
65	Real overflow on \times
66	Real overflow on $<$
67	Real overflow on \leq
68	Real overflow on $=$
69	Real overflow on \geq
70	Real overflow on $>$
71	Real overflow on \neq
72	Integer overflow on $+$
73	Integer overflow on $-$
74	Integer overflow on \times
75	Integer overflow on $/$
76	Operands of $/$ not arithmetic
77	Procedure identifier as controlled variable
78	Expression after while not boolean
79	Operands of exponentiation not arithmetic
80	a^r $a < 0$
81	a^r $a = 0, r < 0$
82	a^i $a = i = 0$
83	a^i integer overflow
84	a^i $i < 0$, integer overflow
85	Nest and SJNS not empty on exit from a code procedure
86	Nest and SJNS not empty on $J[a]$ in a code procedure
87	Input/Output devices not closed before end of program
88	Input/Output function not available
89	Parity failure on reading object program
90	Even restart — operator does TINT;I0.
91	Odd restart — operator does TINT;I1.
92	Invalid operand to function <i>exp</i>
93	Invalid operand to function <i>ln</i>

94	Invalid operand to function <i>sin</i>
95	Invalid operand to function <i>cos</i>
96	<i>May not be used</i>
97	Invalid operand to function <i>sqrt</i>
98	Invalid operand to function <i>entier</i>
99	<i>May not be used</i>
100	<i>C</i> not arithmetic in for <i>V</i> := <i>A</i> step <i>B</i> until <i>C</i>
101	<i>B</i> not arithmetic in for <i>V</i> := <i>A</i> step <i>B</i> until <i>C</i>
102	Real overflow in forming $V - C$ in for <i>V</i> := <i>A</i> step <i>B</i> until <i>C</i>
103	Integer overflow in forming $V - C$ in for <i>V</i> := <i>A</i> step <i>B</i> until <i>C</i>
104	Real overflow in forming $V + B$ in for <i>V</i> := <i>A</i> step <i>B</i> until <i>C</i>
105	Integer overflow in forming $V + B$ in for <i>V</i> := <i>A</i> step <i>B</i> until <i>C</i>
106	Machine/Compiler (nesting store not empty on return to main loop)
107	Real overflow on a^r
121	Device already open
122	Device number contains 8 or 9
123	Trying to use open on a magnetic tape
124	No table entry for this device
125	No tables for this device
126	Parity failure on monitor
127	Exponent out of range
128	10 or decimal point in exponent
129	More than one decimal point
130	More than one sign
131	Sign not at the beginning of a number
132	$+$ $-$ 10 or decimal point without a digit
133	No digit after decimal point
134	Number out of range
135	Negative number with empty sign
136	No digits at all in given field layout
137	More characters than bits in the field
138	Digit before start of initial spaces
139	Digits left over at decimal point position
140	More digits to left of decimal point than given in field layout before round off
141	More digits to left of decimal point than given in field layout after round off
142	Only guard digit in layout field
143	No digits after decimal point

144	More than 8 characters in exponent
145	More than 2 but less than 9 characters in exponent
146	Failure in alarm printing
147	An inadmissible basic symbol in inner string quotes
148	String does not start with [
149	Trying to close a device that is not open
150	8 or 9 in device number
151	Character fetching with basic symbol buffer not empty
152	Device not open
153	Reading on writing device
154	CR by itself (5-hole input only)
155	More than one retain character entry
156	Basic symbol buffer full
157	Write on binary
158	Parity failure on a device
159	Reading characters on a binary device
160	5- or 8-hole tables not available
161	writing on a reading device
162	Device already found
163	[not first symbol of a string
164	character other than 0-9 A-Z in tape identifier except for zero [*****]
165	Input tables not present
166	Parity failure
167	Device not found
168	8 or 9 in device number
169	Table for other function not present
170	Device not a magnetic tape
171	Device not found
172	Writing on a reading device
173	Writing on a character device
174	Parity failure
175	Block count wrong on rewinding after reachine end-tape-warning
176	[not first symbol of string
177	An inadmissible basic symbol in inner string quotes
178	Device not found
179	Array size incompatible
180	Read binary on character device

181	Read on writing device
182	Block count wrong on rewinding after reachine end-tape-warning
183	Parity failure
184	Skip on writing device
185	Skip on character device
186	Backward skip to BTL (beginning-of-tape-label) i.e. before data
187	Parity failure
188	Device not found
189	<i>not taken up</i> - sic
190	<i>not taken up</i> - sic
191	Parity failure
192	Device not found
193	Out of range integer in array heading
194	W not 1 or -1
195	$d > 31$
196	Array size incompatible
197	Invalid terminator to a number
198	Arrat doe not terminate with end-message
199	Number before Z terminator out of range
200	Number of zeros too great for size of array
201	Row or column or grand sum not at end of row, column or array
202	Sum check failure
203	[not first symbol of a string
204	Incorrect dope vector
205	8 or 9 in device number
206	BTC on device other than magnetic tape
207	Device not found
208	8 or 9 in device number
209	ETW on device other than magnetic tape
210	Device not found
211	Parity failure
212	Rewind on output device
213	Device not found
215	Over-reading of cards (END of DATA card being processed)
220	No variable called for standard entry i.e. sread, swrite called with no E, F or I format specified
222	First Algol Basic Symbol of string not [

223	integer brought from format string: -ve sign but no decimal digits
224	-ve scale factor used with E-type transfer
227	w-integer for E- or F-type number not found
228	w-integer for E- or F-type number out of range
229	No decimal point in format string for E- or F-type number
230	d-integer for E- or F-type number not found
231	d-integer for E- or F-type number out of range
232	w-integer < d-integer for E- or F-type number
233	w-integer for I-type number not found
234	w-integer for I-type number out of range
235	Invalid format symbol in the string
238	Incompatibility between kind of variable and the format type of the number, i.e. integer used with E-, F-type format or real number used with I-type format
243	I-type number out of 39-bit range
245	A difference of at least 6 does not exist between w and d for E-type format
260	Two exponent fields in one number
261	Invalid symbol on input medium
262	Decimal point found in number expected to be I-type
263	No decimal digits in exponent field on input
264	No decimal digits in mantissa
265	Exponent of more than two digits
269	Space found in decimal number after first non-space character found
270	Exponent field found in number expected to be I-type
999	Occurs after stack post-mortem

Non-standard error reports

I FOR \perp invalid string \perp	Invalid string used as format description
I CH ddd	Invalid character on input stream in octal: first octal digit indicates case character, 0 = case normal, 1 = case shift
O CH ddd	Invalid basic symbol on output