

Appendix B

COMPILER DIAGNOSTICS

The general format of a compiler diagnostic is:

SIMhhh c CARD nnnn text

hhh three hexa-digits giving compiler component issuing message (first hexadigit) and message serial within component.

c Severity code:

- W Warning; the compiler has detected a possibly erroneous construction but compilation and object program generation continue.
- 3 Recovery error; The program contained an error that could be corrected by inserting or changing some symbol(s) in the program.
- 7 Severe error; the compiler had to discard part of the program, but the compilation could continue. Object module output is suppressed.
- B Severe error; the compilation is terminated after the current scan of the program text.
- E Severe error; the compilation stops at once.
- F Internal error; follow report procedure in Appendix K.

nnnn Card number at which the error was detected.

text Message text. Lower-case letters and the sequence XXXX in the message text denote fields that will be filled with relevant information when the message is printed.

Compiler messages:

If an internal error message is given for a compilation, this might be a result of a bad recovery from another error. Could this be the case, correct these errors and recompile the program.

In case only an internal error message is given, please report the error to NCC as described in the SIMULA Programmers Guide.

SIM000 F LINE nnnn INTERNAL ERROR: PROGRAM INTERRUPT (n)
AT hhhhhhhh RELATIVE TO LINKEDIT ORIGIN

User response: Follow report procedure.

SIM001 E XXXX CANNOT BE OPENED, DDCARD MAY BE MISSING

User response: Supply or correct the DD-card.

SIM002 7 SYSUT3 BUFFER SIZE SPECIFIED TOO BIG -
REDUCED TO nn BYTES

Explanation: The two SYSUT3 buffers could not be placed in the area specified (by default, or by use of the SIZE parameter - see section 2.2.3.1 for a description of the use of the SIZE parameter and its default values).

User response: Change SIZE parameter if used, otherwise contact a systems programmer.

SIM003 F ATTEMPT TO READ PAST END OF FILE ON SYSLIB -
INTERNAL COMPILER ERROR

User response: Follow report procedure.

SIM004 E LINE nnnn I/O ERROR

Explanation: An input/output error occurred when the compiler was writing the object module. A SYNADAF message further identifying the cause of error is also printed.

User response: Check the corresponding DD-card for invalid parameters. If none are found, consult a system programmer.

SIM005 F LINE nnnn EOF ON SYSUTn

User response: Follow report procedure.

SIM006 E LINE nnnn I/O ERROR ON SYSUTn

User response: Check the corresponding DD-card. If it appears to be correct, consult a systems programmer.

SIM007 F LINE nnnn EOF ON SYSIN

User response: Follow report procedure.

SIM008 3 LINE 0000 SYSPUNCH COULD NOT BE OPENED,
'NODECK' ASSUMED

Explanation: The DD-card for SYSPUNCH was probably missing although a deck had been requested.

Compiler action: No object deck is punched.

SIM009 3 LINE 0000 SYSGD COULD NOT BE OPENED, 'NOLOAD'
ASSUMED

Explanation: Analogous to SIM008.

SIM00A E LINE nnnn I/O ERROR ON SYSIN

User response: Check that the SYSIN DD-card defines a SIMULA source program (App.A). If no error is found, contact a systems programmer.

SIM00B E LINE nnnn ATTEMPT TO WRITE ON SYSUT1 OR SYSUT2
WITH BLKSIZE xxx > LIMBLKSZ xxx

Internal message.

SIM00C W 0000 MAXERROR SPECIFIED TOO LARGE, 50 USED

Explanation: The user has requested too many errors to be listed.

Compiler action: A maximum of 50 errors will be listed.

SIM00D E LINE nnnn ESTIMATED NUMBER OF PAGES EXCEEDED

User response: Increase value of the compiler parameter
MAXPAGES if more printed output is required.

SIM00E E LINE nnnn ESTIMATED COMPILATION TIME EXCEEDED

User response: Increase value of the compiler parameter
TIME, remember though that the value should remain less than
the EXEC step time limit (if any).

SIM00F F LINE nnnn ILLEGAL SYMBOL (hhhhhhhh) DETECTED BY
OUTSYM - INTERNAL ERROR

User response: Follow report procedure.

SIM010 F LINE nnnn ILLEGAL SYMBOL (hhhhhhhh) DETECTED BY
INSYM - INTERNAL ERROR

User response: Follow report procedure.

SIM0FF F RELEASE nnnn IS OUT OF DATE AND MUST BE REPLACED

Explanation: All delivered systems have only limited
duration and must be withdrawn from time to time. Updated
fresh copies are delivered in good time for replacement so
that the responsibility for installation of new releases
resides with the licensee.

Messages from Pass 1:

SIM101 3 LINE nnnn NEAR COLUMN nn, EXCESS DECIMAL POINT

Explanation: More than one decimal point was found in a numeric item.

Compiler action: The excess decimal point is ignored.

SIM102 3 LINE nnnn NEAR COLUMN nn, MISSING DIGIT

Compiler action: The digit 0 is inserted.

SIM103 3 LINE nnnn NEAR COLUMN nn, EXCESS EXPONENT

Explanation: More than one & in a numeric item.

Compiler action: Previous exponent used as mantissa, new exponent developed.

SIM104 8 MISSING TEXT QUOTE

Explanation: The source program ended inside a text constant.

User response: Check all text constants (note that any text quotes must be before or in column 72).

SIM105 7 LINE nnnn NEAR COLUMN nn, MISSING CHARACTER QUOTE

Compiler action: The quote that was found is ignored.

User response: Check if a character was intended. If so, add the missing quote. Note that a character constant must be on one card only, and that the power-of-ten symbol is (&), not (').

SIM106 7 LINE nnnn NEAR COLUMN nn, ILLEGAL CHARACTER

Explanation: A character which cannot be part of a SIMULA source program is found outside a comment or a character or text constant.

Compiler action: Character is treated as blank.

SIM107 7 LINE nnnn NEAR COLUMN nn, 'GO' NOT FOLLOWED BY 'TO'

Compiler action: 'GO' is regarded as 'GOTO'.

SIM108 7 LINE nnnn NEAR COLUMN nn, 'REAL' EXPECTED AFTER 'LONG'

Compiler action: 'REAL' is inserted.

SIM109 7 LINE nnnn NEAR COLUMN nn, 'INTEGER' EXPECTED AFTER 'SHORT'

Compiler action: 'INTEGER' is inserted.

SIM10A 7 LINE nnnn NEAR COLUMN nn, '=' EXPECTED

Explanation: '=' should be followed by '='.

Compiler action: '=' is assumed to mean '<>'.

SIM10B E LINE nnnn MORE THAN nnnn DIFFERENTLY SPELLED
IDENTIFIERS, ID TABLE FULL - CORE SIZE TOO SMALL

User response: If there are more than 3072 differently
spelled identifiers, the program must be re-written,
otherwise it may be compiled in a larger core area.

SIM10C 3 LINE nnnn NEAR COLUMN nn, DIGIT EXPECTED
AFTER '&'.

Compiler action: '&' is disregarded.

SIM10D 3 LINE nnnn NEAR COLUMN nn, INTEGER LARGER
THAN $2^{31}-1$, TAKEN AS REAL

Compiler action: The integer constant is converted to a
real constant.

SIM10E B LINE nnnn END OF FILE WHILE SCANNING COMMENT

SIM10F W LINE nnnn NEAR COLUMN nn, SEMICOLON MAY BE
MISSING FOLLOWING END

Explanation: A ':=' , ':-' , '(' or 'GOTO' is found in an
end comment. This may happen if the semicolon terminating
the end comment has been omitted.

SIM110 7 LINE 0000 NO SOURCE PROGRAM TEXT

User response: Check the SYSIN DD-card.

SIM111 3 LINE nnnn NEAR COLUMN nn, NUMBER TOO BIG

Compiler action: The largest representable number is used
(appr. 10^{75}).

SIM112 3 LINE nnnn NEAR COLUMN nn, NUMBER UNDERFLOW,
0 USED AS VALUE

User response: Read section 3.1 of this manual.

SIM113 3 LINE nnnn NEAR COLUMN nn, EXPONENT > 75

Compiler action: cf. SIM111.

SIM114 7 LINE nnnn NEAR COLUMN nn, UNMATCHED 'END'

Explanation: More 'END's than 'BEGIN's.

User response: Check the program structure. BEGIN-END
numbering in right margin should be useful for this purpose.

SIM115 3 LINE nnnn TOO MANY BITS IN A NONDECIMAL CONSTANT
- TRUNCATED

Explanation: This message is related to use of
unsupported feature (nondecimal numerals).

SIM116 B LINE nnnn DEBUG CODE INCORRECTLY SPECIFIED

User response: Check for mis-punch in column 1.

SIM117 7 LINE nnnn NEAR COLUMN nn, 'TO' NOT PRECEDED BY
'GO'

Compiler action: 'TO' is ignored.

User response: Use a different identifier if 'TO' is
meant as such, otherwise insert 'GO'.

SIM118 7 LINE nnnn 'EXTERN' NOT SPECIFIED - OBJECT MODULE
OUTPUT CANCELLED

Explanation: The source program is a class or procedure
definition.

User response: Correct the program of supply the EXTERN
parameter to the compiler.

SIM119 7 LINE nnnn '%COPY' NOT FOLLOWED BY VALID NAME,
OR '%COPY' FOUND IN COPIED CODE

Explanation: 1. The first non-blank character after
'%COPY' was not alphabetic, or no non-blank character was
found in the remaining portion of the card
or 2. The code to be copied contained a '%COPY'
statement.

Guide to user: 1. Specify name of existing source module
on same card as '%COPY'.
2. Avoid recursive copy.

Compiler action: Card ignored.

SIM11A 7 LINE nnnn SYSLIB CANNOT BE OPENED - DD-CARD
MAY BE MISSING

Compiler action: No copy code accepted.

SIM11B 7 LINE nnnn MEMBER TO BE COPIED NOT FOUND ON
SYSLIB

Compiler action: '%COPY' statement is ignored.

User response: Check the '%COPY' statement and, if
necessary, the source library.

SIM11C 7 LINE nnnn SYSLIB BLKSIZE GREATER THAN 3200

Compiler action: '%COPY' statement is ignored.

User response: Check the SYSLIB DD-card and, if
necessary, reblock the library (see (9)).

SIM11D 7 LINE nnnn I/O ERROR ON SYSLIB DURING DIRECTORY
SEARCH

Compiler action: '%COPY' statement is ignored.

User respons: Consult a systems programmer. (List and
correct the PDS directory, or recreate the PDS).

SIM11E 7 LINE nnnn I/O ERROR ON SYSLIB WHILE READING A
MEMBER

Compiler action: '%COPY member' is ignored.

User response: Recreate the number or, if necessary, the
entire library.

SIM11F W LINE nnnn LENGTH OF TEXT CONSTANT>132 (ONE
PRINTED LINE)

User response: Chech for missing or improperly punched
text quote. If no quote is missing, ignore message.

SIM120 B LINE nnnn NUMBER OF IDENTIFIERS (INCLUDING
STANDARD IDENTIFIERS)=nn > 3072.

Explanation: The maximum number of differently spelled
identifiers allowed in this implementation is 3072.

User response: Redeclare quantities where possible.

SIM121 B LINE nnnn 'EXTERNAL CLASS' NOT FOLLOWED BY
VALID ID

SIM122 B LINE nnnn NOT ENOUGH SPACE FOR TREATING IDS OF
EXTERNAL CLASS, (NIDS=xxx, yyy BYTES LACKING)

User response: Recompile in a longer partition.

SIM124 B LINE nnnn EXTERNAL CLASS DECLARATION IN COPIED
CODE - ATTEMPT TO READ FROM SYSLIB RECURSIVELY

Explanation: Code segments inserted by %COPY statement
must not contain other %COPY statement or external class
declaration.

SIM125 B LINE nnnn UNEXPECTED END OF FILE WITHIN AN
EXTERNAL CLASS

User response: Verify that entire separately compiled
class is submitted - if the problem persists, contact NCC.

SIM126 B LINE nnnn INCORRECT FORMAT IN EXTERNAL CLASS CODE

Explanation: Internal error, please report to NCC,
together with a hexadecimal dump of the precompiled class
and the listing showing the error.

SIM127 B LINE nnnn INCORRECT SYNTAX IN EXTERNAL CLASS
DECLARATION

Explanation: Internal error, please report to NCC,
together with a hexadecimal dump of the precompiled class
and the listing showing the error.

SIM128 3 LINE nnnn DIGIT >= RADIX IN A NON-DECIMAL
CONSTANT

Explanation: The error is related to use of unsupported
feature.

SIM129 7 LINE nnnn RADIX NOT 2,4,8 OR 16

Explanation: The error is related to use of unsupported
feature.

SIM12A 7 LINE nnnn EXTERNAL CLASS OUTPUT SUPRESSED -
SYSPUNCH CANNOT BE OPENED

User response: Check presence and validity of SYSPUNCH
data set definition. It must be either a sequential data set
or a pds member.

SIM12B W LINE nnnn INTEGER LESS THAN -2**31, TAKEN AS REAL

Explanation: A value of a fixed-point literal in the
program text exceeds the hardware dictated limit.

SIM12C W LINE nnnn TOO MANY BITS IN A NONDECIMAL INTEGER
CONSTANT, TAKEN AS LONG REAL

Explanation: A hexadecimal constant with more than 8
hexadecimal digits occurring in the program text, not
appended by L.

SIM12D 7 LINE nnnn EXTERN SPECIFIED, BUT NEITHER PROCEDURE
NOR CLASS SUPPLIED

Explanation: Compiler parameter EXTERN value was
different from zero, however a main program in the form of a
(prefixed) block or a compound statement was detected on
SYSIN.

SIM12E W LINE nnnn xxxxxxxx IS AN UNKNOWN KIND OF EXTERNAL
PROCEDURE, TREATED AS 'ASSEMBLY'

Explanation: A word following external was different
from FORTRAN, ASSEMBLY, PROCEDURE or any known type.

SIM12F W LINE nnnn NOT EXACTLY COMPLETE PROGRAM, AT
LEAST 'END' MISSING

Explanation: A SIMULA program must have form of a
compound statement or a (prefixed) block. Neither of these
were found on SYSIN.

SIM130 3 LINE nnnn MISSING DELIMITER IN EXTERNAL
DECLARATION

Explanation: A comma missing as a separator in the
identifier list of an external declaration.

SIM131 W LINE nnnn HIDDEN/PROTECTED FEATURE IS NOT
IMPLEMENTED

Explanation: Attribute protection feature was used in the
compiled program but it will not give the expected effect
because the present release does not contain an
implementation of this feature's semantics.

Messages from Pass 3:

SIM301 3 LINE nnnn THE SPECIFICATION OF THE PARAMETER
XXXX HAS BEEN OMITTED

Compiler action: The parameter is given the specification
INTEGER called by value.

Guide to user: If this specification was not intended
superfluous messages may follow.

SIM302 3 LINE nnnn THE PARAMETER XXXX IS NOT IN THE FORMAL
PARAMETER LIST

Explanation: The mode part of a procedure or class
declaration specifies a parameter not in the formal
parameter list.

Compiler action: The specification is ignored. This may
cause 'UNDECLARED' messages later.

SIM303 E LINE nnnn STACK OVERFLOW

Explanation: The program has been embedded to too many
levels of 'BEGIN', 'IF' (... symbols and/or formal
parameters.

SIM304 B LINE nnnn STACK UNDEFFLOW: YOU PROBABLY HAVE
TOO MANY 'END'S

Explanation: There are too many 'END':s or some missing
'BEGIN':s in the program.

Compiler action: The program text is discarded until a
new 'BEGIN' symbol is found. Then the syntax for a program
is applied to the remaining part, and message SIM318 is
issued.

SIM305 7 LINE nnnn MISSING DELIMITER BEFORE XXXX

Explanation: A constant or identifier is not separated
from the succeeding identifier by a delimiter.

Compiler action: Statement is discarded.

SIM306 7 LINE nnnn WRONG DELIMITER: XXXX IS ILLEGALLY
PLACED

Compiler action: Statement is discarded.

SIM307 7 LINE nnnn SEMICOLON OMITTED AFTER FORMAL
PARAMETER PART.

Compiler action: The erroneous program text is discarded.

SIM308 7 LINE nnnn IMPROPER QUALIFICATION: IT SHOULD
HAVE THE FORM REF(<IDENTIFIER>)

Compiler action: Declaration/specification discarded.

SIM309 7 LINE nnnn MISPLACED CONSTANT

Explanation: An identifier or constant is immediately followed by a constant.

Compiler action: Statement discarded.

SIM30A 7 LINE nnnn XXXX IS ILLEGALLY PLACED

Compiler action: Statement discarded.

SIM30B 7 LINE nnnn MISSING IDENTIFIER AFTER 'IN', 'IS' OR 'QUA'

Compiler action: Statement discarded.

SIM30C 7 LINE nnnn ILLEGAL CONSTRUCTION: THE CLAUSE BEFORE XXXX IS NOT PROPERLY ENDED

Compiler action: Statement discarded.

Guide to user: May be caused by an earlier error.

SIM30D 7 LINE nnnn IMPROPER ACTIVATION STATEMENT

Compiler action: Statement discarded.

SIM30E 3 LINE nnnn ILLEGAL USE OF PRIOR: 'PRIOR' MAY BE USED ONLY WITH 'AT' OR 'DELAY'

Compiler action: 'PRIOR' is ignored.

SIM30F 3 LINE nnnn THE FORMAL PARAMETER XXXX IS SPECIFIED MORE THAN ONCE

Compiler action: The latest specification is used and any mode definition for this parameter is ignored.

SIM310 3 LINE nnnn A SWITCH, LABEL, REF QUANTITY OR PROCEDURE - SUCH AS XXXX - MAY NOT BE PASSED BY VALUE: THE DEFAULT MODE IS SET.

SIM311 3 LINE nnnn THE FORMAL PARAMETER XXXX HAS DUPLICATE NAME/VALUE MODES

Compiler action: The first specified mode is used.

SIM312 7 LINE nnnn ILLEGAL SPECIFICATION: 'VIRTUAL' MUST BE FOLLOWED BY A COLON

Compiler action: Statement discarded.

SIM313 F INTERNAL ERROR - CONTACT A SYSTEMS PROGRAMMER

User response: Follow report procedure.

SIM314 3 LINE nnnn DUPLICATE 'INNER': AT MOST ONE INNER
MAY APPEAR PER CLASS BODY

Compiler action: 'INNER' is ignored.

SIM315 3 LINE nnnn MISPLACED 'INNER': INNER MUST APPEAR
AS A STATEMENT ON ITS OWN AT THE OUTERMOST BLOCK
LEVEL OF A CLASS BODY

Compiler action: Statement is ignored.

SIM316 7 LINE nnnn ILLEGAL WHEN BRANCH: THE IDENTIFIER
IS MISSING IN 'WHEN' <IDENTIFIER> DO'

Compiler action: The clause is ignored.

SIM317 7 LINE nnnn ILLEGAL WHEN BRANCH: THE DO IS MISSING
IN 'WHEN <IDENTIFIER> DO'

Compiler action: An extra do has been inserted.

SIM318 8 LINE nnnn UNBALANCED PROGRAM: A FURTHER 'BEGIN'
HAS BEEN FOUND AFTER THE 'END' WHICH MATCHED THE
INITIAL 'BEGIN'

Compiler action: Start from scratch.

SIM319 3 LINE nnnn UNBALANCED PROGRAM DUE TO INSUFFICIENT
'END'S: EXTRA 'END'S HAVE BEEN INSERTED AT THE
FINISH OF YOUR PROGRAM

SIM31A 7 LINE nnnn UNBALANCED PARENTHESES BEFORE ':='
OR ':-'

Compiler action: Statement is discarded.

SIM31B 7 LINE nnnn A BRACKETED EXPRESSION IS NOT A LEGAL
STATEMENT

Compiler action: Expression is ignored.

SIM31C 3 LINE nnnn MISPLACED NAME/VALUE PART - THE DEFAULT
MODE HAS BEEN TAKEN. PLACE IT BEFORE THE
SPECIFICATIONS.

SIM31D 3 LINE nnnn PASS 3 RECOVERY HAS INSERTED A 'BEGIN'
HERE. THIS CHANGES IN SCOPE MAY GIVE RISE TO
SPURIOUS ERROR MESSAGES IN LATER PASSES.

SIM31E 7 LINE nnnn THE PROGRAM TEXT STOPPED IN THE MIDDLE
OF A CONSTRUCTION - PROBABLY DUE TO MISSING LINES.

SIM31F 3 LINE nnnn NO SEMI-COLON FOUND AFTER A
PARENTHEZIZED FORMAL-PARAMETER-LIST. AN EXTRA ';'
HAS BEEN INSERTED.

SIM320 3 LINE nnnn THE CONSTRUCTION 'IF ... THEN
INSPECT/FOR/WHILE ELSE' IS ILLEGAL. WRAP THE
STATEMENT FOLLOWING THE 'THEN' IN A 'BEGIN - END'
PAIR.

SIM321 7 LINE nnnn MISSING IDENTIFIER AFTER THE KEYWORD
'CLASS/PROCEDURE'.

SIM322 7 LINE nnnn MISSING ATTRIBUTE IDENTIFIER AFTER A
DOT ('.').

SIM323 7 LINE nnnn TEXT CONSTANTS ARE NOT ALLOWED TO THE
IMMEDIATE LEFT OR RIGHT OF REFERENCE COMPARATORS
'==' OR '!='.

SIM324 B LINE nnnn LABEL, SWITCH OR PROCEDURE MAY NOT BE
USED AS A CLASS PARAMETER SPECIFIER.

SIM325 3 LINE nnnn LEFT PARENTHESIS OMITTED IN
'REF(IDENTIFIER)'. AN EXTRA '(' HAS BEEN INSERTED.

SIM326 3 LINE nnnn RIGHT PARENTHESIS OMITTED IN
'REF(IDENTIFIER)'. AN EXTRA ')' HAS BEEN INSERTED.

Messages from Pass 4:

SIM401 F LINE nnnn INTERNAL ERROR - IMPROPER BLOCK
NESTING

User response: Follow report procedure.

SIM402 F LINE nnnn STACK OVERFLOW IN STACK nn (nn ENTRIES
WERE ALLOCATED)

User response: Follow report procedure.

SIM403 F LINE nnnn INTERNAL ERROR - STACK UNDERFLOW IN
STACK nn

User response: Follow report procedure.

SIM404 F LINE nnnn INTERNAL ERROR - MICPLACED SYMBOL XXXX

User response: Follow report procedure.

SIM405 7 LINE nnnn NUMBER OF PARAMETERS TO PROC/CLASS
EXCEEDS 127

Explanation: See section 3.3.

SIM406 7 LINE nnnn NUMBER OF VIRTUAL SPECIFICATIONS
EXCEEDS 255

Explanation: See section 3.3.

SIM407 7 LINE nnnn FOR-STATEMENT NESTING LEVEL EXCEEDS 30

SIM408 7 LINE nnnn NUMBER OF SWITCH ELEMENTS EXCEEDS 127

SIM409 7 LINE nnnn ARRAY DIMENSION EXCEEDS 127

Explanation: An array declaration indicated more than 127
subscripts.

SIM40A 7 LINE nnnn MORE THAN 127 IDENTIFIERS IN ID LIST

Explanation: A declaration list (i.e. a list of
identifiers separated by commas in a declaration part) had
more than 127 elements.

User response: Divide the list into lists with less than
127 elements.

SIM40B F LINE nnnn INTERNAL ERROR - STACK INDEX (nn)
OUT OF RANGE

User response: Follow report procedure.

Messages from Pass 5:

SIM501 F LINE nnnn INTERNAL ERROR - XXXX WAS READ INSTEAD
OF 'SUBLQL' SYMBOL

User response: Follow report procedure.

SIM502 F LINE nnnn INTERNAL ERROR - XXXX WAS READ INSTEAD
OF 'LQLEND' SYMBOL

User response: Follow report procedure.

SIM503 7 LINE nnnn CLAS XXXX HAS UNDECLARED PREFIX XXXX

Compiler action: Prefix is ignored.

SIM504 7 LINE nnnn ILLEGAL PREFIX XXXX TO CLASS XXXX,
XXXX IS NOT A CLASS

Compiler action: Prefix is ignored.

SIM505 7 LINE nnnn CLASS XXXX, DECLARED AT BLOCK LEVEL nn,
IS USED AS PREFIX AT LEVEL nn

User response: Declare the subclass or prefixed block at
the same block level as the prefix.

SIM506 7 LINE nnnn ILLEGAL PREFIX TO CLASS XXXX, XXXX
BECAME VISIBLE THROUGH CONNECTION

User response: Declare the class in the class body of the
connected class.

SIM507 7 LINE nnnn CLASS XXXX OCCURS IN ITS OWN PREFIX
CHAIN

Compiler action: Prefix is ignored.

SIM508 7 LINE nnnn AMBIGUOUS IDENTIFIER XXXX
(THIS DECLARATION OF XXXX REPLACES THE LAST MADE
ON LINE nnnn)

Explanation: An identifier has been declared twice in a
block.

SIM509 7 LINE nnnn CONFLICTING VIRTUAL SPECIFICATION OF
XXXX IN CLASS XXXX

Explanation: XXXX (first occurrence) has been specified
VIRTUAL twice in a prefix chain.

SIM50A B LINE nnnn QUALIFYING CLASS XXXX OF REFERENCE
QUANTITY XXXX IS UNDECLARED (XXXX IS ASSUMED
TO BE OF TYPE 'INTEGER')

Guide to user: The altered meaning of the quantity will
probably trigger other error message.

SIM50B B LINE nnnn QUALIFIER XXXX OF REFERENCE QUANTITY
XXXX IS NOT A CLASS (XXXX IS ASSUMED TO BE OF
TYPE 'INTEGER')

Guide to user: cf. SIM50A.

SIM50C 7 LINE nnnn MATCHING QUANTITY XXXX IN CLASS XXXX
IS OF IMPROPER KIND

Compiler action: The quantity will not be regarded as a
match, and the virtual specification will become invisible
(i.e. no further matches will be accepted).

SIM50D 7 LINE nnnn MATCHING QUANTITY XXXX IN CLASS XXXX
IS OF IMPROPER TYPE

Compiler action: cf. SIM50C.

Guide to user: Read section 4.2.

SIM50E 7 LINE nnnn MATCHING PROCEDURE XXXX IN CLASS XXXX
IS NOT SUBORDINATE

Compiler action: cf. SIM50C.

Guide to user: Read section 4.2.

SIM50F E LINE nnnn CAPACITY ERROR - ALLOCATE STACK
OVERFLOW: TRY DECLARING SUBCLASSES BEFORE THEIR
PREFIXES

Guide to user: This compiler capacity limitation can
always be overcome by preceding a sufficient number of
prefixed classes by their subclasses.

SIM510 E LINE nnnn ILLEGAL PREFIX XXXX - PREFIX LEVEL
EXCEEDS 62

Explanation: See section 3.3.

SIM511 B LINE nnnn UNDECLARED BLOCK PREFIX XXXX

Compiler action: Prefix is ignored.

SIM512 E LINE nnnn STATIC BLOCK LEVEL GREATER THAN 15

Explanation: See section 3.3.

SIM513 W LINE nnnn QUALIFICATIONS XXXX AND XXXX HAVE
INCOMPATIBLE BLOCK LEVELS

Explanation: The qualifications are either not on the
same prefix chain or one of them has become visible by
connection.

SIM514 B LINE nnnn QUALIFICATIONS XXXX AND XXXX ARE
INCOMPATIBLE

Explanation: The qualifications are not on the same
prefix chain.

SIM515 F LINE nnnn INTERNAL ERROR - XXXX IS UNKNOWN
KEY SYMBOL

User response: Follow report procedure.

SIM516 7 LINE nnnn SYSTEM CLASS XXXX CANNOT BE USED FOR
PREFIXING

Explanation: See section 4.1.

SIM517 7 LINE nnnn XXXX IS AN ILLEGAL BLOCK PREFIX (DUE
TO LOCAL OBJECT(S) IN CLASS XXXX)

SIM518 B LINE nnnn MISPLACED TEXT EXPRESSION BEFORE XXXX

SIM519 B LINE nnnn MISPLACED OBJECT EXPRESSION BEFORE XXXX

SIM51A B LINE nnnn MISPLACED VALUE EXPRESSION BEFORE XXXX

Guide to user: May result from the compiler recovery
action in SIM50A or SIM50B.

SIM51B B LINE nnnn MISPLACED NON-OBJECT EXPRESSION BEFORE
XXXX

Guide to user: cf. SIM51A.

SIM51C B LINE nnnn MISPLACED NON-REFERENCE EXPRESSION
AFTER XXXX

SIM51D B LINE nnnn MISPLACED NON-ARITHMETIC EXPRESSION
AFTER XXXX

SIM51E E LINE nnnn OPERAND STACK CAPACITY EXCEEDED -
SIMPLIFY EXPRESSION

User response: If error persists after simplification,
follow report procedure.

SIM51F F LINE nnnn INTERNAL ERROR - OPERAND STACK
UNDERFLOW

User response: Follow report procedure.

SIM520 7 LINE nnnn ATTEMPT TO MATCH VIRTUAL SPECIFICATION
XXXX OF XXXX BY A FORMAL PARAMETER

Compiler action: The formal parameter will become
invisible, but the virtual specification will be further
matchable.

SIM521 B LINE nnnn IDENTIFIER XXXX IN OBJECT GENERATOR
IS NOT A CLASS IDENTIFIER

SIM522 F LINE nnnn INTERNAL ERROR - SYMBOL 'SUBLQL'
SCANNED IN 5B

User response: Follow report procedure.

SIM523 F LINE nnnn INTERNAL ERROR - OPERAND STACK DATA
ENTRY hhhhhhhh UNSTACKED

User response: Follow report procedure.

SIM524 F LINE nnnn INTERNAL ERROR - SYMBOL 'OTHR'
SCANNED IN 5B

User response: Follow report procedure.

SIM525 7 LINE nnnn IDENTIFIER XXXX IS UNDECLARED

Compiler action: A dummy declaration is inserted, which
may cause other errors (51A, 51B, 51C).

SIM526 B LINE nnnn MISPLACED TEXT OR REFERENCE EXPRESSION
AFTER XXXX

SIM527 B LINE nnnn IMPROPER TYPE IN XXXX RELATION

Explanation: A binary relation had incompatible operands.

SIM528 B LINE nnnn DYNAMIC QUALIFICATIONS XXXX AND XXXX
IN REFERENCE RELATION DISAGREE

Explanation: Either the qualifications were not on the
same prefix chain or at least one of the qualifications had
become visible by connection.

SIM529 F LINE nnnn INTERNAL ERROR - XXXX IS INVALID
CONTROL TABLE INDEX

User response: Follow report procedure.

SIM52A F LINE nnnn INTERNAL ERROR - XXXX FOLLOWS CLASS ID
IN OBJECT GENERATOR

User response: Follow report procedure.

SIM52B B LINE nnnn NUMBER OF ACTUAL PARAMETERS (nn) NOT
EQUAL TO NUMBER OF FORMAL PARAMETERS (nn) OF XXXX

SIM52C 3 LINE nnnn MATCH TO VIRTUAL REF SPECIFICATION XXXX
IN CLASS XXXX IS INCORRECTLY QUALIFIED - SPECIFIED
QUALIFICATION ASSUMED

Explanation: See section 4.2.

SIM52D B LINE nnnn 'THIS XXXX' IS AN INVALID LOCAL OBJECT

Explanation: The local object did not occur inside a class body or connection block qualified by XXXX.

SIM52E 7 LINE nnnn ILLEGAL USE OF LOCAL OBJECT ('THIS XXXX') IN A BLOCK PREFIXED BY XXXX

Explanation: A reference expression must not evaluate to a reference to a prefixed block.

SIM52F B LINE nnnn INCOMPATIBLE TRUE/FALSE CLAUSES IN A CONDITIONAL EXPRESSION

SIM530 B LINE nnnn XXXX IS NOT A CLASS IDENTIFIER

Explanation: The identifier was used as prefix or after 'QUA', 'IS', 'IN' or 'WHEN'.

Compiler action: Prefix or expression ignored.

SIM531 7 LINE nnnn ILLEGAL USE OF DOT NOTATION, CLASS XXXX CONTAINS LOCAL CLASSES

SIM532 B LINE nnnn XXXX IS NOT AN ATTRIBUTE OF CLASS XXXX

Explanation: In a <remote identifier> the identifier after the dot was not an attribute of the object reference expression before the dot.

SIM533 B LINE nnnn XXXX IS NOT A TEXT ATTRIBUTE IDENTIFIER

Explanation: A text expression followed by a dot was not followed by a text attribute.

SIM534 E LINE nnnn REDECLARATION STACK OVERFLOW

Explanation: The sum of the block level and the forstatement nesting level is greater than 30. See section 3.3.

SIM535 E LINE nnnn CLASS XXXX HAS MORE THAN 127 PARAMETERS (INCLUDING THOSE IN PREFIXES)

Explanation: See section 3.3.

SIM536 E LINE nnnn CLASS XXXX HAS MORE THAN 255 VIRTUAL SPECIFICATIONS (INCLUDING THOSE IN PREFIXES)

Explanation: See section 3.3.

SIM537 B LINE nnnn BLOCK PREFIX XXXX IS NOT A CLASS

Compiler action: Prefix ignored.

SIM538 W LINE nnnn MATCHING QUANTITY XXXX IN CLASS XXXX
HAS INCONSISTENT NUMBER OF PARAMETERS OR SUBSCRIPTS

Explanation: Two matches of the same virtual procedure or array specification had different number of parameters/subscripts.

Guide to user: This message shows that the quantity must be used with care if execution errors are to be avoided.

SIM539 W LINE nnnn INCONSISTENCY BETWEEN ACTUAL PARAMETER
COUNT (nn) AND FORMAL PARAMETER COUNT (nn) IN
MATCH TO VIRTUAL PROCEDURE XXXX

Guide to user: When this message appears, but not SIM538, then the program certainly contains parts that can never be executed without a run-time error.

SIM53A B LINE nnnn MIXED TYPES IN REFERENCE ASSIGNMENT

Explanation: REF and TEXT types were mixed.

SIM53B W LINE nnnn CALL ON UNMATCHED VIRTUAL PROCEDURE
XXXX

Explanation: There was no match at this access level.
Warning only.

SIM53C B LINE nnnn ATTEMPT TO ACTIVATE A NON-PROCESS
OBJECT OF CLASS XXXX

SIM53D E LINE nnnn DYNAMIC BLOCK LEVEL GREATER THAN 15

Explanation: See section 3.3.

SIM53E 7 LINE nnnn MATCHING QUANTITY XXXX IN BLOCK
PREFIXED BY XXXX IS OF IMPROPER KIND

Compiler action: Same as SIM50C.

SIM53F 7 LINE nnnn MATCHING QUANTITY XXXX IN BLOCK
PREFIXED BY XXXX IS OF IMPROPER TYPE

Compiler action: Same as SIM50C.

SIM540 7 LINE nnnn MATCHING PROCEDURE XXXX IN BLOCK
PREFIXED BY XXXX IS NOT SUBORDINATE

Compiler action: Same as SIM50C.

SIM541 7 LINE nnnn ILLEGAL BLOCK PREFIX - XXXX CONTAINS
LOCAL OBJECTS (IN CLASS XXXX AMONGST OTHERS)

SIM542 7 LINE nnnn MATCH XXXX IN CLASS XXXX REJECTED
DUE TO REDECLARATION OF SPECIFIED QUALIFYING CLASS

Explanation: The qualifying class of a virtual specification is no longer visible, so no further matches can be requested.

SIM543 7 LINE nnnn INCORRECTLY QUALIFIED MATCH XXXX IN
CLASS XXXX (NOTE THAT VIRTUAL SPECIFICATION XXXX
IS UNMATCHABLE)

Explanation: The specified qualifying class is invisible
and therefore the specification is unmatchable at this
point.

SIM544 B LINE nnnn MISPLACED CLASS IDENTIFIER XXXX

SIM545 B LINE nnnn ACTUAL PARAMETER TO PROCEDURE/CLASS
XXXX HAS TYPE INCOMPATIBLE WITH THAT OF
CORRESPONDING FORMAL PARAMETER XXXX

Guide to user: Check that an array, switch or procedure
was not passed with associated subscript(s), index or
parameter(s) if the formal parameter was specified array,
switch or procedure.

SIM546 7 LINE nnnn CLASS SIMSET/SIMULATION USED AS A
PREFIX WITHIN BLOCK OR CLASS PREFIXED BY
SIMSET/SIMULATION

Explanation: See section 4.1.

SIM547 7 LINE nnnn BLOCK PREFIX XXXX BECAME VISIBLE
THROUGH CONNECTION

SIM548 3 LINE nnnn MATCH TO VIRTUAL REF SPECIFICATION XXXX
IN BLOCK PREFIXED BY XXXX IS WRONGLY QUALIFIED -
SPECIFIED QUALIFICATION IS ASSUMED

Explanation: See section 4.2.

SIM549 7 LINE nnnn MATCH XXXX IN BLOCK PREFIXED BY XXXX IS
REJECTED DUE TO REDECLARATION OF SPECIFIED
QUALIFYING CLASS

Explanation: See SIM542.

SIM54A 7 LINE nnnn INCORRECTLY QUALIFIED MATCH XXXX IN
BLOCK PREFIXED BY XXXX (NOTE THAT VIRTUAL
SPECIFICATION XXXX IS UNMATCHABLE)

Explanation: See SIM543.

SIM54B W LINE nnnn MATCHING QUANTITY XXXX IN BLOCK
PREFIXED BY XXXX HAS INCONSISTENT NUMBER OF
PARAMETER OR SUBSCRIPTS

Explanation: See SIM538.

SIM54C 7 LINE nnnn MATCHING PROCEDURE XXXX IN CLASS XXXX
IS NOT SUBORDINATE (PROBABLY DUE TO A PREFIX LOOP)

Explanation: Section 4.2.

SIM54D W LINE nnnn COMPATIBILITY OF QUALIFICATIONS XXXX
AND XXXX MUST BE CHECKED AT RUN-TIME

Explanation: In a reference assignment (A:-X) the
qualification of the identifier A is a subclass of the
qualification of the expression X.

Guide to user: The run-time check will degrade program
performance. If appearing in an "inner loop" it could pay
off to alter the qualification of A, but this may imply
other changes in the program.

SIM54E 7 LINE nnnn MATCHING PROCEDURE XXXX IN CLASS XXXX
IS NOT SUBORDINATE (PROBABLY DUE TO USE OF
UNDECLARED PREFIX)

Explanation: Section 4.2.

SIM54F 7 LINE nnnn (IN LOWER BOUND OF ARRAY XXXX
DECLARATION) - IDENTIFIER XXXX IS UNDECLARED

Compiler action: cf. SIM525.

Guide to user: nnnn is the cardnumber of the left bracket
of the array bounds list.

SIM550 7 LINE nnnn MATCHING PROCEDURE XXXX IN CLASS XXXX
IS NOT SUBORDINATE (PROBABLY DUE TO USE OF
NON-CLASS PREFIX)

Compiler action: cf. SIM50C.

SIM551 7 LINE nnnn (IN UPPER BOUND OF ARRAY XXXX
DECLARATION) - IDENTIFIER XXXX IS UNDECLARED

Compiler action: cf. SIM525.

Guide to user: cf. SIM54F.

SIM552 B LINE nnnn MISPLACED OBJECT EXPRESSION AFTER ':='

SIM553 B LINE nnnn MISPLACED VALUE EXPRESSION AFTER ':-'

SIM554 E LINE nnnn CAPACITY ERROR - FREE STORAGE AREA
TOO SMALL TO CONTAIN DICTIONARY

User response: Try to compile in a larger core area. If
no more core is available, the number of differently spelled
identifiers must be decreased by parallel and nested
redeclarations.

SIM555 B LINE nnnn (IN LOWER ARRAY BOUND) - NO. ACTUAL
PARMS (nn) NOT EQUAL TO NO. FORMAL PARMS (nn) OF
XXXX

Guide to user: cf. SIM54F.

SIM556 B LINE nnnn (IN UPPER ARRAY BOUND) - NO. ACTUAL
PARMS (nn) NOT EQUAL TO NO. FORMAL PARAMS (nn) OF
XXXX

Guide to user: cf. SIM54F.

SIM557 B LINE nnnn (IN LOWER BOUND nn OF ARRAY XXXX
DECLN) - MICPLACED TEXT EXPRESSION

Guide to user: cf. SIM54F.

SIM558 B LINE nnnn (IN UPPER BOUND nn OF ARRAY XXXX
DECLN) - MISPLACED TEXT EXPRESSION

Guide to user: cf. SIM54F.

SIM559 B LINE nnnn (IN LOWER BOUND nn OF ARRAY XXXX
DECLN) - MISPLACED OBJECT EXPRESSION

Guide to user: cf. SIM54F.

SIM55A B LINE nnnn (IN UPPER BOUND nn OF ARRAY XXXX
DECLN) - MISPLACED OBJECT EXPRESSION

Guide to user: cf. SIM54F.

SIM55B W LINE nnnn (IN LOWER ARRAY BOUND) - MATCH TO
VIRTUAL PROCEDURE XXXX HAS INCONSISTENT
ACTUAL/FORMAL PARAMETER COUNTS (nn/nn)

Guide to user: cf. SIM539, SIM54F

SIM55C W LINE nnnn (IN UPPER ARRAY BOUND) - MATCH TO
VIRTUAL PROCEDURE XXXX HAS INCONSISTENT
ACTUAL/FORMAL PARAMETER COUNTS (nn/nn)

Guide to user: cf. SIM539, SIM54F

SIM55D W LINE nnnn (IN LOWER BOUND OF ARRAY XXXX
DECLARATION) - CALL ON UNMATCHED VIRTUAL
PROCEDURE XXXX

Explanation: cf. SIM53B.

Guide to user: cf. SIM54F.

SIM55E W LINE nnnn (IN UPPER BOUND OF ARRAY XXXX
DECLARATION) - CALL ON UNMATCHED VIRTUAL
PROCEDURE XXXX

Explanation: cf. SIM53B.

Guide to user: cf. SIM54F.

SIM55F B LINE nnnn ACTUAL PARAMETER TO STANDARD
PROCEDURE/CLASS XXXX HAS TYPE INCOMPATIBLE WITH
THAT OF CORRESPONDING FORMAL PARAMETER

SIM560 B (IN ARRAY XXXX BOUNDS) - IDENTIFIER XXXX IS
INVALID: DECLARED AT SAME BLOCK LEVEL AS ARRAY XXXX

SIM561 B ACTUAL PARM TO PROC/CLASS XXXX, CORRGT TO FORMAL
PARM XXXX, SHOULD NOT INCLUDE
PARMS/SUBSCRIPTS/INDECES

Explanation: The corresponding formal parameter is a
procedure, array or switch. Parameters, subscripts or
indecas should not be supplied with the actual parameters.

SIM562 B ACTUAL PARM TO STANDARD PROC/CLASS SHOULD NOT
INCLUDE PARMS/SUBSCRIPTS/INDECES

Explanation: cf. SIM561.

SIM563 B MISPLACED TEXT EXPRESSION AFTER 'GOTO'

SIM564 B MISPLACED OBJECT EXPRESSION AFTER 'GOTO'

SIM565 E BLOCK SIZE EXCEEDS 4096 BYTES

Explanation: This implementation restricts the maximum
block size to 4096 bytes (see Section 3.2.)

SIM566 W FURTHER OCCURRENCE OF IDENTIFIER XXXX (PREVIOUSLY
UNDECLARED AND GIVEN A DUMMY DECLARATION)

Guide to user: On the first occurrence of an undeclared
identifier, message SIM525 is issued. On subsequent
occurrences, this message (SIM566) is issued (up to 10
times). If the identifier occurs more than 10 times, message
SIM567 is issued and further occurrences are not noted.

SIM567 W FURTHER OCCURENCE OF IDENTIFIER XXXX (PREVIOUSLY
UNDECLARED) - FURTHER WARNINGS FOR THIS ID ARE
SUPPRESSED

Explanation: see SIM566.

SIM568 F LINE nnnn PAGING ERROR - SYSUT4 I/O ERROR

User response: Check the DD-card for SYSUT4. Note that a
preallocated data set can not be used. If no error is found,
consult a systems programmer.

SIM569 F LINE nnnn PAGING ERROR - SYSUT4 DD CARD MISSING

Explanation: A DD-card for SYSUT4 had not been supplied,
and the compiler tables and stacks were too large to be held
in core.

User response: Supply the DD-card or re-submit the job to
be run in a larger region.

SIM56A F LINE nnnn PAGING ERROR - WRONG PAGE LOADED FROM
SYSUT4

User response: Follow report procedure.

SIM56B F LINE nnnn PAGING ERROR - INVALID LOAD FROM
VIRTUAL MEMORY, VIRTUAL ADDRESS = hhhhhhhh

User response: Follow report procedure.

SIM56C E LINE nnnn PAGING ERROR - CORE STORAGE TOO SMALL:
COMPILATION TERMINATED

User response: Run in a larger core area. If error
persists, consult a systems programmer.

SIM56D F LINE nnnn PAGING ERROR - VIRTUAL ADDRESS
hhhhhhhh OUT OF RANGE

User response: Follow report procedure.

SIM56E F LINE nnnn PAGING ERROR - ATTEMPT TO STORE INTO
FIXED PART OF VIRTUAL MEMORY AT ADDRESS hhhhhhhh

User response: Follow report procedure.

SIM56F B LINE nnnn MISPLACED NON-PROCEDURE IDENTIFIER
xxxxxxx

Explanation: Only a procedure identifier can form a
statement on its own.

SIM570 W LINE nnnn INCONSISTENCY BETWEEN
PARAMETER/SUBSCRIPT COUNTS IN OCCURENCES OF
PROCEDURE/ARRAY xxxxxxxx CALLED BY NAME

SIM571 7 LINE nnnn INCONSISTENCY BETWEEN
PARAMETER/SUBSCRIPT COUNTS IN OCCURRENCES OF
PROCEDURE/ARRAY xxxxxxxx

SIM572 3 LINE nnnn STANDARD PROCEDURE xxxxxxxx MAY NOT BE
PASSED AS A PARAMETER TO PROCEDURE yyyyyyy

Messages from Pass 7:

SIM700 F LINE nnnn INTERNAL ERROR xxxxxxxx

User response: Please report to NCC with the listing demonstration the error.

SIM701 3 LINE nnnn NON-BOOLEAN OPERAND XXXX IN BOOLEAN EXPRESSION

Compiler action: Operand is replaced by value 'FALSE'.

SIM702 3 LINE nnnn OPERAND XXXX NOT SIMPLE IN EXPRESSION

Explanation: A procedure, array or class identifier was used without parameters or subscripts in an expression.

Compiler action: Operand is replaced by a constant (NONE, NOTEXT, FALSE, CHAR(0) or a zero of appropriate type).

SIM703 3 LINE nnnn LEFT (XXXX) AND RIGHT (XXXX) PART OF ASSIGNMENT INCOMPATIBLE

Explanation: Types were incompatible.

Compiler action: The assignment is ignored.

SIM704 7 LINE nnnn ASSIGNMENT RIGHT HAND SIDE ILLEGAL

SIM705 3 LINE nnnn IMPROPER TYPE OF OPERAND (XXXX) IN ARITHMETIC EXPRESSION

Explanation: An arithmetic operator (+, -, *, //, /, or **) had a non-arithmetic operand.

Compiler action: The resulting operand is replaced by zero.

SIM706 3 LINE nnnn IMPROPER TYPE OF OPERAND (XXXX) IN VALUE RELATION

Explanation: An operand of a value relation was not of value type (arithmetic, CHARACTER or TEXT).

Compiler action: The relation is replaced by 'FALSE'.

SIM707 3 LINE nnnn BOOLEAN OPERAND (XXXX) IN VALUE RELATION

Compiler action: The relation is replaced by 'FALSE'.

SIM708 3 LINE nnnn IMPROPER TYPE OF OPERAND (XXXX) IN REFERENCE RELATION

Compiler action: The relation is replaced by 'FALSE'.

SIM709 3 LINE nnnn MIXED TYPES IN REFERENCE RELATION

Explanation: Types TEXT and REF were mixed.

Compiler action: The relation is replaced by 'FALSE'.

SIM70A B LINE nnnn CONTROLLED VARIABLE (XXXX) WAS NOT
VALUE TYPE

Compiler action: A dummy LONG REAL is used which may
trigger other messages in the FOR-list.

SIM70B B LINE nnnn CONTROLLED VARIABLE (XXXX) WAS NOT REF

Compiler action: A dummy REF is used. cf. SIM70A.

SIM70C E LINE nnnn CONSTANT TABLE OVERFLOW - SIMPLIFY
SOURCE CODE

Explanation: More than 16 constants were used in one
statement.

SIM70D F LINE nnnn FEATURE NOT IMPLEMENTED XXXXXXXX

User response: Follow report procedure.

SIM70E 3 LINE nnnn A TEXT VALUE IS BEING ASSIGNED TO
NON-TEXT VARIABLE XXXX

Compiler action: Assignment by-passed.

SIM70F 3 LINE nnnn GO TO OPERAND (XXXX) IS NOT SIMPLE

Compiler action: GO TO statement is ignored.

SIM710 3 LINE nnnn GO TO OPERAND (XXXX) IS NOT LABEL

Compiler action: GO TO statement is ignored.

SIM711 3 LINE nnnnn TYPES IN DENOTES ARE INCOMPATIBLE

SIM712 3 LINE nnnn LEFT SIDE OF DENOTES (XXXX) IS NOT REF
OR TEXT

SIM713 3 LINE nnnn SWITCH ELEMENT NOT SIMPLE

SIM714 3 LINE nnnn SWITCH ELEMENT (XXXX) NOT OF TYPE
LABEL

SIM715 3 LINE nnnn EXPRESSION SUCCEEDING 'WHILE' (XXXX)
WAS NOT BOOLEAN

SIM716 3 LINE nnnn OPERAND SUCCEEDING 'WHILE' (XXXX) WAS
NOT SIMPLE

SIM717 3 LINE nnnn IMPROPER USE OF AN ARRAY IDENTIFIER
XXXX

Explanation: No subscripts were used.

SIM718 3 LINE nnnn EXPRESSION BETWEEN 'IF' AND 'THEN' WAS
NOT BOOLEAN

Compiler action: 'FALSE' is used.

SIM719 3 LINE nnnn EXPRESSION FOLLOWING 'NOT' WAS NOT
BOOLEAN

SIM71A 3 LINE nnnn PARAMETER TO 'OUTCHAR' WAS NOT OF
CHARACTER TYPE

SIM71B 3 LINE nnnn FIRST PARAMETER TO 'DISCRETE' OR
'HISTD' WAS NOT ARRAY

SIM71C 3 LINE nnnn ARRAY PARAMETER (XXXX) TO 'DISCRETE' OR
'HISTD' WAS NOT OF TYPE REAL

SIM71D 3 LINE nnnn THE LAST PARAMETER TO A RANDOM DRAWING
PROCEDURE WAS INCORRECT

Explanation: The last parameter to a random drawing
procedure was an expression.

SIM71E 3 LINE nnnn THE LAST PARAMETER (XXXX) TO A RANDOM
DRAWING PROCEDURE WAS NOT SIMPLE

SIM71F 3 LINE nnnn THE LAST PARAMETER (XXXX) TO A RANDOM
DRAWING PROCEDURE WAS NOT OF TYPE INTEGER

SIM720 3 LINE nnnn IMPROPER PARAMETER (XXXX) TO 'ENTIER'

SIM721 W LINE nnnn PARAMETER XXXX TO ENTIER WAS INTEGER

SIM722 3 PARAMETER TO 'RANK' WAS NOT OF CHARACTER TYPE

SIM723 3 NON-ARITHMETIC PARAMETER (XXXX) TO 'SIGN'

SIM724 3 PARAMETER XXXX TO MATHEMATICAL FUNCTION WAS NOT
ARITHMETIC

SIM725 3 LINE nnnn PARAMETER XXXX TO 'OUTCHAR' WAS NOT
SIMPLE

SIM726 3 LINE nnnn IMPROPER TEXT REFERENCE

SIM727 3 LINE nnnn A RESULT IS BEING USED AS A TEXT
REFERENCE

SIM728 3 LINE nnnn TYPE OF ACTUAL CONSTANT PARAMETER
CORRESPONDING TO FORMAL XXXX WAS BOOLEAN OR
CHARACTER

SIM729 W LINE nnnn ZERO CONSTANT STEP IN STEP-UNTIL CLAUSE

SIM72A 3 LINE nnnn TEXT CONSTANT ILLEGAL AS NAME PARAMETER

SIM72B 3 LINE nnnn IMPROPER PARAMETER xxxxxxxx TO FORTRAN
PROCEDURE

Explanation: Note the following restrictions apply for
parameters to FORTRAN procedures:
- Only identifiers or literals can be used as a parameter.
- Parameter type must not be ref, label or character.

SIM74E 3 LINE nnnn IMPROPER USE OF NOTYPE PROCEDURE
xxxxxxx

SIM74F 3 LINE nnnn REGISTER NOT RELEASED xxxxxxxx -
INTERNAL ERROR

Follow report procedure.

SIM750 3 LINE nnnn SIMPLIFY STATEMENT, TOO MANY FORMAL
PARAMETERS

User response: Simplify the expression by reducing the
number of left hand side formal parameters or simplify the
levels of nesting (parentheses or implied parentheses) on
the right hand side.

SIM751 3 LINE nnnn SIMPLIFY EXPRESSION, TOO MANY REFERENCE
QUANTITIES

SIM752 3 LINE nnnn SIMPLIFY STATEMENT, TOO MANY TEXT
QUANTITIES

User response: Simplify by reducing the number of multiple
text assignments or reduce complexity of text expression.

SIM753 3 LINE nnnn SIMPLIFY EXPRESSION, TOO MANY NESTED
VALUE QUANTITIES

User response: Simplify the expression by reducing the
amount of nesting (or implied nesting) of value quantities.
If necessary, make the calculation in two or more steps.

SIM754 3 LINE nnnn THE RESULT OF A MULTIPLICATION OF TWO
INTEGER CONSTANTS WAS TOO LARGE TO BE CONTAINED
IN AN INTEGER

User response: One of the constants should be changed to
type real.

SIM755 W LINE nnnn I GREATER THAN 31 IN CONSTANT
EXPRESSION 2**I

SIM756 W LINE nnnn X**1 IS X

SIM757 W LINE nnnn EQUALITY/INEQUALITY RELATION CONTAINING
REAL QUANTITIES MAY NOT BE MEANINGFUL

SIM75B F LINE nnnn OPERAND STACK UNDERFLOW - INTERNAL
ERROR

SIM75C E LINE nnnn EXTERNAL SYMBOL TABLE OVERFLOW -
CAPACITY ERROR

Explanation: The present implementation does not allow more external names. This also includes the external names in the run-time system for the modules which have been included by the compiler.

SIM75D 3 LINE nnnn ILLEGAL VALUE ASSIGNMENT OF xxxx TO
yyyy

SIM75E 3 LINE nnnn ILLEGAL REFERENCE RELATION - xxxx
CANNOT BE COMPARED WITH yyyy

SIM75F 3 LINE nnnn ATTEMPT TO ASSIGN A VALUE TO PROCEDURE
IDENTIFIER xxxx OUTSIDE THE BODY OF xxxx

SIM760 3 LINE nnnn ATTEMPT TO ASSIGN A REFERENCE TO
PROCEDURE IDENTIFIER xxxx OUTSIDE THE BODY OF xxxx

SIM761 3 LINE nnnn WRONG NUMBER OF SUBSCRIPTS (kkkk) OF
ARRAY aaaa - aaaa WAS DECLARED AS mmmm-DIMENSIONAL
ARRAY

SIM762 3 LINE nnnn TOO MANY INDICES (mmmm) FOR SWITCH ssss
- A SWITCH MAY ONLY HAVE ONE INDEX

SIM763 3 LINE nnnn EXTERNAL FORTRAN PROCEDURE xxxx CANNOT
BE OF TEXT TYPE.

SIM764 3 LINE nnnn ILLEGAL OCCURENCE OF A LABEL/SWITCH
IDENTIFIER xxxx AT THE LEFT HAND SIDE OF AN
ASSIGNMENT

SIM765 3 LINE nnnn TYPE OF ACTUAL ARRAY PARAMETER xxxx IS
NOT IDENTICAL TO THE TYPE OF THE CORRESPONDING
FORMAL ARRAY yyyy

Explanation: Types of array parameters must coincide.

SIM766 3 LINE nnnn FORMAL TEXT PARAMETER xxxx OF
PROCEDURE/CLASS aaaa MAY NOT HAVE A STRING AS
ACTUAL PARAMETER IN DEFAULT MODE

SIM767 3 LINE nnnn ILLEGAL OCCURENCE OF A NON-ARITHMETIC
CONSTANT

SIM768 3 LINE nnnn ACTUAL PARAMETER xxxx IS NOT AN ARRAY,
BUT THE CORRESPONDING FORMAL yyyy WAS SPECIFIED AS
AN ARRAY

SIM769 3 LINE nnnn FORMAL PARAMETER xxxx AND ACTUAL
PARAMETER yyyy IN VALUE/DEFAULT MODE ARE OF
INCOMPATIBLE TYPES

SIM76A E LINE nnnn TOO MANY NESTED PROCEDURE CALLS -
CAPACITY ERROR

SIM76B 3 LINE nnnn LABEL/SWITCH xxxx MAY NOT BE USED
REMOTELY

SIM76C 3 LINE nnnn FORMAL PARAMETER xxxx AND ACTUAL
PARAMETER yyyy ARE OF INCOMPATIBLE KINDS

SIM76D 3 LINE nnnn FORMAL PARAMETER xxxx AND ACTUAL
PARAMETER yyyy ARE OF INCOMPATIBLE TYPES

SIM76E 3 LINE nnnn REMOTE CALL ON EXTERNAL PROCEDURE xxxx

Explanation: It makes little sense to distinguish between
external attribute belonging to different objects of some
class - they are all identical.

SIM76F 7 LINE nnnn MISPLACED SUBSCRIPT EXPRESSION
FOLLOWING SIMPLE OPERAND xxxx

SIM770 F LINE nnnn PROGRAM COMPILATION IMPROPERLY ENDED -
INTERNAL ERROR

SIM771 F LINE nnnn EXTERNAL SYMBOL xxxx NOT FOUND IN ESD -
INTERNAL ERROR

SIM772 7 LINE nnnn FIRST TWO PARAMETERS TO HISTO MUST
BE OF KIND ARRAY

SIM773 7 LINE nnnn LAST TWO PARAMETERS TO HISTO MUST BE
SIMPLE OPERANDS

SIM774 7 LINE nnnn FIRST TWO PARAMETERS TO HISTO MAY ONLY
BE OF INTEGER, SHORT INTEGER OR REAL TYPE

SIM775 7 LINE nnnn LAST TWO PARAMETERS TO HISTO MUST BE OF
ARITHMETIC TYPE

SIM776 7 LINE nnnn THE TYPE OF THE ACTUAL ARRAY xxxx IS
NOT IDENTICAL WITH THAT OF THE FORMAL ARRAY

SIM777 7 LINE nnnn xxxx IS ILLEGAL CONTROLLED VARIABLE

Explanation: The controlled variable cannot be a name
parameter or procedure identifier.

SIM778 3 LINE nnnn CONSTANT ARITHMETIC ERROR : xxxxxxxx

SIM779 W LINE nnnn xxxxxxxx IS TOO LONG FOR AN EXTERNAL
NAME, ONLY SEVEN CHARACTERS WERE ACCEPTED

SIM77A W LINE nnnn ACTUAL PARAMETER NUMBER mmmm OF
EXTERNAL ASSEMBLY/FORTRAN PROCEDURE xxxx IS AN
EXPRESSION. THIS MAY CAUSE ERROR ZYQ062 UNDER
EXECUTION.

SIM77B 3 LINE nnnn jjjj CANNOT BE CONVERTED TO iiii
BECAUSE IT IS OUT OF iiii RANGE

Explanation: Compiler attempt to convert a (long)
real/integer literal value to integer/short integer type
failed because the former has too large a magnitude.

Compiler action: Magnitude 1 is assumed.

SIM77C W LINE nnnn WAS USE OF THE CONNECTED LABEL xxxx
INTENDED ?

Explanation: A label which is visible through inspection
occurred in a goto-statement or a switch element list.
Unless the inspected object is also operating the use of
this label will lead to ZYQ007 error in RT.

SIM77D W LINE nnnn SYMBDUMP VALUE TOO HIGH WITH RESPECT TO
CORE AVAILABLE. INCREASE SYSFREE SUBPARAMETER OF
SIZE (AND REGION?) BY nK.

Explanation: Either follow this instruction (note that
SYSFREE is the third subparameter to SIZE option - usually
4K in default) or eventually recompile with SYMBDUMP<3.

SIM77E 3 LINE nnnn DUE TO A STRING IN ONE OF BRANCHES, THE
CONDITIONAL TEXT VALUE CANNOT BE USED IN A
REFERENCE CONTEXT

Explanation: An IF-THEN-ELSE construction with at least
one of the branches being a string is taken as a conditional
text value (i.e. "conditional string") and as such cannot be
used where string could be illegal.

SIM77F B LINE nnnn REG AND REGFLAG INCOMPATIBLE XXXXXXXX -
INTERNAL ERROR

Follow report procedure.

Messages from Pass 8:

SIM800 F LINE nnnn NON-EXISTENT FIXUP - INTERNAL ERROR

SIM801 F LINE nnnn COMPILER CAPACITY EXCEEDED XXXX

Rerun with partition size increased by at least
XXXX (hexadecimal) bytes.

SIM802 F LINE nnnn COMPILER CAPACITY EXCEEDED XXXX

Rerun with partition size increased by at least
XXXX (hexadecimal) bytes.
