



# MultiValue Basic Quick Reference

Version 2018.1  
2024-05-02

InterSystems®, HealthShare Care Community®, HealthShare Unified Care Record®, IntegratedML®, InterSystems Caché®, InterSystems Ensemble®, InterSystems HealthShare®, InterSystems IRIS®, and TrakCare are registered trademarks of InterSystems Corporation. HealthShare® CMS Solution Pack™ HealthShare® Health Connect Cloud™, InterSystems IRIS for Health™, InterSystems Supply Chain Orchestrator™, and InterSystems TotalView™ For Asset Management are trademarks of InterSystems Corporation. TrakCare is a registered trademark in Australia and the European Union.

All other brand or product names used herein are trademarks or registered trademarks of their respective companies or organizations.

This document contains trade secret and confidential information which is the property of InterSystems Corporation, One Memorial Drive, Cambridge, MA 02142, or its affiliates, and is furnished for the sole purpose of the operation and maintenance of the products of InterSystems Corporation. No part of this publication is to be used for any other purpose, and this publication is not to be reproduced, copied, disclosed, transmitted, stored in a retrieval system or translated into any human or computer language, in any form, by any means, in whole or in part, without the express prior written consent of InterSystems Corporation.

The copying, use and disposition of this document and the software programs described herein is prohibited except to the limited extent set forth in the standard software license agreement(s) of InterSystems Corporation covering such programs and related documentation. InterSystems Corporation makes no representations and warranties concerning such software programs other than those set forth in such standard software license agreement(s). In addition, the liability of InterSystems Corporation for any losses or damages relating to or arising out of the use of such software programs is limited in the manner set forth in such standard software license agreement(s).

THE FOREGOING IS A GENERAL SUMMARY OF THE RESTRICTIONS AND LIMITATIONS IMPOSED BY INTERSYSTEMS CORPORATION ON THE USE OF, AND LIABILITY ARISING FROM, ITS COMPUTER SOFTWARE. FOR COMPLETE INFORMATION REFERENCE SHOULD BE MADE TO THE STANDARD SOFTWARE LICENSE AGREEMENT(S) OF INTERSYSTEMS CORPORATION, COPIES OF WHICH WILL BE MADE AVAILABLE UPON REQUEST.

InterSystems Corporation disclaims responsibility for errors which may appear in this document, and it reserves the right, in its sole discretion and without notice, to make substitutions and modifications in the products and practices described in this document.

For Support questions about any InterSystems products, contact:

**InterSystems Worldwide Response Center (WRC)**  
Tel: +1-617-621-0700  
Tel: +44 (0) 844 854 2917  
Email: [support@InterSystems.com](mailto:support@InterSystems.com)

# Table of Contents

<b>1 Caché MVBasic Supported Features .....</b>	<b>1</b>
1.1 MultiValue Basic Commands, Functions, and Reserved Words .....	2
1.2 Conversion Codes .....	18
1.3 Compiler Directives .....	20
1.4 System Variables (@ Variables) .....	21
1.5 String Extraction Operators .....	23

# List of Tables

Table 1–1: Reserved Words By Initial Letter .....	1
Table 1–2: Other Items .....	1
Table 1–3: MultiValue Basic - Reserved Words A... ..	2
Table 1–4: MultiValue Basic - Reserved Words B... ..	3
Table 1–5: MultiValue Basic - Reserved Words C... ..	3
Table 1–6: MultiValue Basic - Reserved Words D... ..	5
Table 1–7: MultiValue Basic - Reserved Words E... ..	5
Table 1–8: MultiValue Basic - Reserved Words F... ..	6
Table 1–9: MultiValue Basic - Reserved Words G... ..	7
Table 1–10: MultiValue Basic - Reserved Words H... ..	8
Table 1–11: MultiValue Basic - Reserved Words I... ..	8
Table 1–12: MultiValue Basic - Reserved Words K... ..	9
Table 1–13: MultiValue Basic - Reserved Words L... ..	9
Table 1–14: MultiValue Basic - Reserved Words M... ..	10
Table 1–15: MultiValue Basic - Reserved Words N .....	11
Table 1–16: MultiValue Basic - Reserved Words O... ..	11
Table 1–17: MultiValue Basic - Reserved Words P... ..	12
Table 1–18: MultiValue Basic - Reserved Words Q .....	12
Table 1–19: MultiValue Basic - Reserved Words R... ..	12
Table 1–20: MultiValue Basic - Reserved Words S .....	14
Table 1–21: MultiValue Basic - Reserved Words T... ..	16
Table 1–22: MultiValue Basic - Reserved Words U... ..	17
Table 1–23: MultiValue Basic - Reserved Words W... ..	18
Table 1–24: MultiValue Basic - Reserved Words X... ..	18
Table 1–25: MultiValue Basic Conversion Codes .....	19
Table 1–26: MultiValue Basic - Compiler Directives .....	20
Table 1–27: MultiValue Basic - @-Variables .....	21
Table 1–28: MultiValue Basic - String Extraction .....	23

# 1

## Caché MVBasic Supported Features

The tables in this document list the features of UniVerse Basic and their status in Caché MVBasic. There are two possibilities:

- Present – This feature is implemented in Caché MVBasic.
- Caché Alternative Exists – The feature is not supported, but much of this functionality is available in other ways in Caché.

Rows with neither column checked indicate that the development is still underway. If the word “reserved” appears in a column, it indicates that the term is a reserved word, but is not a statement or function in MultiValue Basic.

For a quick reference to specific items, use one of the following links:

**Table 1–1: Reserved Words By Initial Letter**

<a href="#">A..</a>	<a href="#">J..</a>	<a href="#">S..</a>
<a href="#">B..</a>	<a href="#">K..</a>	<a href="#">T..</a>
<a href="#">C..</a>	<a href="#">L..</a>	<a href="#">U..</a>
<a href="#">D..</a>	<a href="#">M..</a>	<a href="#">V..</a>
<a href="#">E..</a>	<a href="#">N..</a>	<a href="#">W..</a>
<a href="#">F..</a>	<a href="#">O..</a>	<a href="#">X..</a>
<a href="#">G..</a>	<a href="#">P..</a>	<a href="#">Y..</a>
<a href="#">H..</a>	<a href="#">Q..</a>	<a href="#">Z..</a>
<a href="#">I..</a>	<a href="#">R..</a>	

**Table 1–2: Other Items**

<a href="#">Compiler Directives</a>	<a href="#">String Extraction</a>
<a href="#">@-Variables</a>	<a href="#">Conversion Codes</a>

For full details, please refer to the [Caché MVBasic Language Reference](#) documentation.

# 1.1 MultiValue Basic Commands, Functions, and Reserved Words

**Table 1–3: MultiValue Basic - Reserved Words A...**

Syntax Item	Present	Caché Alternative Exists
ABORTE	X	-
ABORTM	X	-
ABORT	X	-
ABS()	X	-
ABSS()	X	-
acceptConnection()	-	X
ACCESS()	X	
ACOS()	X	-
addAuthenticationRule()	-	X
addCertificate()	-	X
addRequestParameter()	-	X
ADDS()	X	-
ALL	X	-
ALPHA()	X	-
amInitialize()	-	X
amReceiveMsg()	-	X
amReceiveRequest()	-	X
amSendMsg()	-	X
amSendRequest()	-	X
amSendResponse()	-	X
amTerminate()	-	X
analyzeCertificate()	-	X
ANDS()	X	-
AND	X	-
ARG	X	-
ASCII()	X	-
ASIN()	X	-
ASSIGN	X	-
ASSIGNED()	X	-

Syntax Item	Present	Caché Alternative Exists
ATAN()	X	-
AUTHORIZATION	-	X
AUXMAP	-	X

**Table 1–4: MultiValue Basic - Reserved Words B...**

Syntax Item	Present	Caché Alternative Exists
BCONVERT	-	X
BEFORE	X	-
BEGIN	X	-
BITAND()	X	-
BITNOT()	X	-
BITOR()	X	-
BITRESET()	X	-
BITSET()	X	-
BITTEST()	X	-
BITXOR()	X	-
BREAK	X	-
BSCAN	X	-
BYTE()	X	-
BYTELEN()	X	-
BYTETYPE()	-	X
BY	X	-

**Table 1–5: MultiValue Basic - Reserved Words C...**

Syntax Item	Present	Caché Alternative Exists
CALCULATE()	X	-
CALLING	X	-
CALL	X	-
CAPTURING	X	-
CASE	X	-
CATS()	X	-
CAT	X	-
CENTURY.PIVOT()	-	X
CHAIN	X	-
CHANGE()	X	-
CHAR()	X	-

Syntax Item	Present	Caché Alternative Exists
CHARLEN()	-	-
CHARS()	X	-
CHECKSUM()	X	-
CLEARCOMMON	X	-
CLEARDATA	X	-
CLEARFILE	X	-
CLEARINPUT	X	-
CLEARPROMPTS	-	-
CLEARSELECT	X	-
CLEAR	X	-
CLOSESEQ	X	-
closeSocket()	-	X
CloseXMLData()	-	X
CLOSE	X	-
COL1()	X	-
COL2()	X	-
COMMIT	X	-
COMMON	X	-
COMPARE()	-	-
COM	X	-
CONTINUE	X	-
CONVERT()	X	-
CONVERT	X	-
COS()	X	-
COSH()	X	-
COUNT()	X	-
COUNTS()	X	-
createCertification()	-	X
createCertRequest()	-	X
createSecureRequest()	-	X
createSecurityContext()	-	X
CREATE	X	-
CRT	X	-



**Table 1–6: MultiValue Basic - Reserved Words D...**

Syntax Item	Present	Caché Alternative Exists
DATA	X	-
DATE()	X	-
DBTOXML()	-	X
DCOUNT()	X	-
DEBUG	X	-
DECLARE	-	X
DEFFUN	X	-
DELETE()	X	-
DELETEDLIST	X	-
DELETEU	X	-
DELETE	X	-
DEL	X	-
DESCRINFO()	-	-
DIAGNOSTICS	-	X
DIGEST()	-	-
DIMENSION	X	-
DIM	X	-
DIR()	-	-
DISPLAY	X	-
DISPLAYWIDTH()	-	-
DIV()	X	-
DIVS()	X	-
DOWNCASE()	X	-
DO	X	-
DQUOTE()	X	-
DROUND()	-	-
DTX()	X	-

**Table 1–7: MultiValue Basic - Reserved Words E...**

Syntax Item	Present	Caché Alternative Exists
EBCDIC()	X	-
ECHO	X	-
ELSE	X	-
ENCODE()	-	-

Syntax Item	Present	Caché Alternative Exists
ENCRYPT()	-	See class %SYSTEM.Encryption
END	X	-
ENTER	X	-
EOF(arg)	X	-
EQS()	X	-
EQUATE	X	-
EQU	X	-
EQ	X	-
EREPLACE()	X	-
ERRMSG	X	-
ERROR	X	-
EXCHANGE()	-	-
EXECUTE	X	-
EXEC	reserved	reserved
EXIT	X	-
EXP()	X	-
EXTRACT()	X	-

**Table 1–8: MultiValue Basic - Reserved Words F...**

Syntax Item	Present	Caché Alternative Exists
FADD()	X	-
FDIV()	X	-
FFIX()	-	-
FFLT()	-	-
FIELD()	X	-
FIELDS()	X	-
FIELDSTORE()	X	-
FILEINFO()	X	-
FILELOCK	X	-
FILEUNLOCK	X	-
FIND	X	-
FINDSTR	X	-
FIX()	X	-
FLUSH	X	-
FMT()	X	-

Syntax Item	Present	Caché Alternative Exists
FMTDP()	-	-
FMTS()	X	-
FMTSDP()	-	-
FMUL()	X	-
FOLD()	X	-
FOLDDP()	-	-
FOOTING	X	-
FORMLIST	X	-
FOR	X	-
FROM	X	-
FSUB()	X	-
FUNCTION	X	-

**Table 1–9: MultiValue Basic - Reserved Words G...**

Syntax Item	Present	Caché Alternative Exists
GARBAGECOLLECT	-	X
GCI	-	X
generateKey()	-	X
GES()	X	-
GET(arg)	X	-
GET	-	-
getCipherSuite()	-	X
GETENV()	X	-
getHTTPDefault()	-	X
GETLIST	X	-
GETLOCALE()	-	X
GETPTR()	X	-
GETPU()	X	-
GETQUEUE()	-	-
GETREADU()	-	-
GETREM()	X	-
getSocketErrorMessage()	-	X
getSocketInformation()	-	X
getSocketOptions()	-	X
GETUSERGROUP()	-	-

Syntax Item	Present	Caché Alternative Exists
GETUSERID()	-	-
GETUSERNAME()	-	-
GETX	-	-
GE	X	-
GOSUB	X	-
GOTO	X	-
GO	X	-
GROUP()	X	-
GROUPSTORE	-	-
GTS()	X	-
GT	X	-

**Table 1–10: MultiValue Basic - Reserved Words H...**

Syntax Item	Present	Caché Alternative Exists
HASH()	-	-
HEADINGE	-	-
HEADINGN	-	-
HEADING	X	-
HUSH	X	-

**Table 1–11: MultiValue Basic - Reserved Words I...**

Syntax Item	Present	Caché Alternative Exists
ICHECK()	-	X
ICONV()	X	-
ICONVS()	X	-
IFS()	X	-
IF	X	-
ILPROMPT()	-	-
IN	X	-
IN()	-	-
INCLUDE	-	-
INDEX()	X	-
INDEXS()	X	-
INDICES()	X	-
initSecureServerSocket()	-	X

Syntax Item	Present	Caché Alternative Exists
initServerSocket()	-	X
INMAT()	X	-
INPUTCLEAR	X	-
INPUTDISP	-	-
INPUTDP	-	-
INPUTERR	X	-
INPUTIF	X	-
INPUTNULL	-	-
INPUTTRAP	-	-
INPUT	X	-
INPUTERR	X	-
INSERT()	X	-
INS	X	-
INT()	X	-
ISMB()	-	-
ISNULL()	-	-
ISNULLS()	-	-
ISMV()	-	-
ISNVS()	-	-
ISOLATION	reserved	reserved
ITYPE()	X	-

**Table 1–12: MultiValue Basic - Reserved Words K...**

Syntax Item	Present	Caché Alternative Exists
KEYEDIT	-	-
KEYEXIT	-	-
KEYIN()	X	-
KEYTRAP	-	-
KEY	X	-

**Table 1–13: MultiValue Basic - Reserved Words L...**

Syntax Item	Present	Caché Alternative Exists
LEFT()	X	-
LEN()	X	-
LENDP()	-	-

Syntax Item	Present	Caché Alternative Exists
LENS()	X	-
LENSDP()	-	-
LES()	X	-
LET	X	-
LEVEL	reserved	reserved
LE	X	-
LISTUSER()	-	-
LITERALLY	X	-
LIT	X	-
LN()	X	-
loadSecurityContext()	-	X
LOCALEINFO()	-	X
LOCATE	X	-
LOCKED	X	-
LOCK	X	-
LOOP	X	-
LOWER()	X	-
LPTR	reserved	reserved
LTS()	X	-
LT	X	-

**Table 1–14: MultiValue Basic - Reserved Words M...**

Syntax Item	Present	Caché Alternative Exists
MATBUILD	X	-
MATCHES	X	-
MATCHFIELD()	-	-
MATCH	X	-
MATPARSE	X	-
MATREADL	X	-
MATREADU	X	-
MATREAD	X	-
MATWRITEU	X	-
MATWRITE	X	-
MAT	X	-
MAXIMUM()	X	-

Syntax Item	Present	Caché Alternative Exists
MBLEN()	-	-
MESSAGE	reserved	reserved
MINIMUM()	X	-
MOD()	X	-
MODS()	X	-
MTU	reserved	reserved
MULS()	X	-

**Table 1–15: MultiValue Basic - Reserved Words N**

Syntax Item	Present	Caché Alternative Exists
NAP	X	-
NEG()	X	-
NEGS()	X	-
NES()	X	-
NEXT	X	-
NE	X	-
NO.ISOLATION	-	-
NOBUF	X	-
NOTS()	X	-
NOT()	X	-
NULL	X	-
NUM()	X	-
NUMS()	X	-

**Table 1–16: MultiValue Basic - Reserved Words O...**

Syntax Item	Present	Caché Alternative Exists
OCONV()	X	-
OCONVS()	X	-
OFF	X	-
ON	X	-
OPEN	X	-
OPENCHECK	-	X
OPENDEV	-	-
OPENPATH	X	-
openSecureSocket()	-	X
OPENSEQ	X	-

Syntax Item	Present	Caché Alternative Exists
openSocket()	-	X
ORS()	X	-
OR	X	-
OUT	X	-

**Table 1–17: MultiValue Basic - Reserved Words P...**

Syntax Item	Present	Caché Alternative Exists
PAGE	X	-
PASSLIST	X	-
PCDRIVER	-	X
PERFORM	X	-
PRECISION	X	-
PrepareXML()	-	X
PRINT	X	-
PRINTER	X	-
PRINTERIO	-	X
PRINTERR	-	X
PROCREAD	X	-
PROCWRITE	X	-
PROGRAM	X	-
PROG	X	-
PROMPT	X	-
protocolLogging()	-	X
PWR()	X	-

**Table 1–18: MultiValue Basic - Reserved Words Q**

Syntax Item	Present	Caché Alternative Exists
QUOTE()	X	-

**Table 1–19: MultiValue Basic - Reserved Words R...**

Syntax Item	Present	Caché Alternative Exists
RAISE()	X	-
RANDOMIZE	X	-
READ.COMMITTED	-	-
READ.UNCOMMITTED	-	-
READBLK	X	-



Syntax Item	Present	Caché Alternative Exists
READLIST	X	-
READL	X	-
READNEXT	X	-
READSEQ	X	-
readSocket()	-	X
READT	-	-
READU	X	-
READVL	X	-
READVU	X	-
READV	X	-
ReadXMLData()	-	X
READ	X	-
REAL()	-	-
RECIO	-	X
RECORDLOCKED()	X	-
RECORDLOCKL	X	-
RECORDLOCKU	X	-
ReleaseXML()	-	X
RELEASE	X	-
REM	X	-
REM()	X	-
REMOVE	X	-
REMOVE()	X	-
REPEATABLE.READ	-	-
REPEAT	X	-
REPLACE()	X	-
RESET	X	-
RETURNING	X	-
RETURN	X	-
REUSE()	X	-
REVREMOVE	X	-
REWIND	-	-
RIGHT()	X	-
RND()	X	-

Syntax Item	Present	Caché Alternative Exists
ROLLBACK	X	-
RPC.CALL()	-	X
RPC.CONNECT()	-	X
RPC.DISCONNECT()	-	X
RQM	X	-
RTNLIST	X	-

**Table 1–20: MultiValue Basic - Reserved Words S**

Syntax Item	Present	Caché Alternative Exists
SADD()	X	-
saveSecurityContext()	-	X
SCMP()	X	-
SDIV()	X	-
SEEK(arg)	X	-
SEEK	X	-
SELECTE	X	-
SELECTINDEX	X	-
SELECTINFO()	X	-
SELECTN	X	-
SELECTV	X	-
SELECT	X	-
SEND	-	-
SENTENCE()	X	-
SEQ()	X	-
SEQS()	X	-
SEQSUM	-	X
SERIALIZABLE	-	-
setAuthenticationDepth()	-	X
setCipherSuite()	-	X
setClientAuthentication()	-	X
setHTTPDefault()	-	X
SETLOCALE()	-	X
setPrivateKey()	-	X
setRandomSeed()	-	X
SETREM	X	-

Syntax Item	Present	Caché Alternative Exists
setSocketOptions()	-	X
SETTING	X	-
SET	-	-
SETENV()	-	-
showSecurityContext()	-	X
SIGNATURE()	-	X
SIN()	X	-
SINH()	X	-
SLEEP	X	-
SMUL()	X	-
SOAP functions	-	X
SORT()	X	-
SOUNDEX()	X	-
SPACE()	X	-
SPACES()	X	-
SPLICE()	X	-
SPOOLER()	X	-
SQLALLOCENV	-	See the developer materials on <a href="#">Caché SQL</a>
SQLALLOCONNECT	-	See above.
SQLALLOCSTMT	-	See above.
SQLBINDCOL	-	See above.
SQLCANCEL	-	See above.
SQLCOLATTRIBUTES	-	See above.
SQLCONNECT	-	See above.
SQLDESCRIBECOL	-	See above.
SQLDISCONNECT	-	See above.
SQLERROR	-	See above.
SQLEXECDIRECT	-	See above.
SQLEXECUTE	-	See above.
SQLFETCH	-	See above.
SQLFREECONNECT	-	See above.
SQLFREEENV	-	See above.
SQLFREESTMT	-	See above.
SQLGETCURSORNAME	-	See above.

Syntax Item	Present	Caché Alternative Exists
SQLNUMRESULTCOLS	-	See above.
SQLPREPARE	-	See above.
SQLROWCOUNT	-	See above.
SQLSETCONNECT-OPTION	-	See above.
SQLSETCURSORNAME	-	See above.
SQLSETPARAM	-	See above.
SQRT()	X	-
SQUOTE()	X	-
SSELECTN	X	-
SSELECTV	X	-
SSELECT	X	-
SSUB()	X	-
START	X	-
STATUS()	X	-
STATUS	X	-
STEP	X	-
STOPE	X	-
STOPM	X	-
STOP	X	-
STORAGE	-	X
STR()	X	-
STRS()	X	-
submitRequest()	-	X
SUBROUTINE	X	-
SUBR()	X	-
SUBS()	X	-
SUBSTRINGS()	X	-
SUM()	X	-
SUMMATION()	X	-
SWAP	X	-
SWAP()	-	-

**Table 1–21: MultiValue Basic - Reserved Words T...**

Syntax Item	Present	Caché Alternative Exists
TABSTOP	-	-

Syntax Item	Present	Caché Alternative Exists
TAN()	X	-
TANH()	X	-
TERMINFO()	-	-
THEN	X	-
TIME()	X	-
TIMEDATE()	X	-
TIMEOUT	-	-
TO	X	-
TPARM()	-	-
TPRINT	-	-
TRANS()	X	-
TRANSACTION	X	-
TRIM()	X	-
TRIMB()	X	-
TRIMBS()	X	-
TRIMF()	X	-
TRIMFS()	X	-
TRIMS()	X	-
TTYCTL	-	X
TTYGET	-	X
TTYSET	-	X

**Table 1–22: MultiValue Basic - Reserved Words U...**

Syntax Item	Present	Caché Alternative Exists
UNASSIGNED()	X	-
UNICHAR()	X	-
UNICHARS()	X	-
UNISEQ()	X	-
UNISEQS()	X	-
UNIT	X	-
UNLOCK	X	-
UNTIL	X	-
UPCASE()	X	-
UPRINT	-	X
USING	X	-

**Table 1–23: MultiValue Basic - Reserved Words W...**

Syntax Item	Present	Caché Alternative Exists
WEOFSEQF	-	-
WEOFSEQ	X	-
WEOF	-	-
WHILE	X	-
WORDSIZE	-	X
WORKWRITE	-	X
WRITEBLK	X	-
WRITELIST	X	-
WRITESEQF	X	-
WRITESEQ	X	-
WRITET	-	-
WRITEU	X	-
WRITEVU	X	-
WRITEV	X	-
WRITE	X	-

**Table 1–24: MultiValue Basic - Reserved Words X...**

Syntax Item	Present	Caché Alternative Exists
XDOM functions	-	X
XLATE()	X	-
XMAP functions	-	X
XML functions	-	X
XTD()	X	-

## 1.2 Conversion Codes

The MultiValue conversion codes listed in the following table can be used in various ways, including the following:

- The MVBasic [ICONV](#), [ICONVS](#), [OCONV](#), and [OCONVS](#) functions.
- The MVBasic [FMT](#) and [FMTS](#) functions.
- Implicit formatting with the MVBasic [DISPLAY](#), [CRT](#), and [PRINT](#) statements.
- The CMQL query language [CONV](#) (or **CONVERSION**) clause.
- The VOC Attribute 7 value.

For further details and program examples for individual conversion codes, refer to the [ICONV](#) and [OCONV](#) functions in the *Caché MVBasic Language Reference*.

**Table 1–25: MultiValue Basic Conversion Codes**

Code(s)	Present	Description
A	OCONV	Arithmetic and equality functions
BB	-	Bit conversion (binary)
BX	-	Bit conversion (hexadecimal)
C	OCONV	Concatenation
D	ICONV/OCONV	Date conversion
DI	ICONV/OCONV	Internal date conversion
ECS	-	Extended character set conversion
F	-	Mathematical functions
G	ICONV/OCONV	Group extraction
L	ICONV/OCONV	Length function
MB	-	Binary conversion
MCA	ICONV/OCONV	Masked character alphabetic
MC/A	OCONV	Masked character exclude alphabetic
MCAX	ICONV/OCONV	Masked character to ASCII conversion
MCB	ICONV/OCONV	Masked character both alphabetic and numeric
MC/B	OCONV	Masked character exclude both alphabetic and numeric
MCD	OCONV	Decimal to hexadecimal conversion
MCDX	ICONV/OCONV	Decimal to hexadecimal conversion
MCL, MCU	ICONV/OCONV	Masked lowercase and uppercase conversion
MCM, MC/M	-	Masked multi- and single-byte conversion
MCN	ICONV/OCONV	Masked character numeric
MC/N	OCONV	Masked character exclude numeric
MCP	OCONV	Masked non-printable character conversion
MCT	OCONV	Masked initial capitals conversion
MCW	-	Masked wide character conversion
MCWX	ICONV/OCONV	Masked wide character to ASCII conversion
MCX	ICONV/OCONV	Hexadecimal to decimal conversion
MCXA	ICONV/OCONV	Character to 8-bit hexadecimal conversion
MCXD	ICONV/OCONV	Hexadecimal to decimal conversion
MCXW	ICONV/OCONV	Character to 16-bit (wide) hexadecimal conversion
MD	ICONV/OCONV	Masked decimal conversion
ML, MR	ICONV/OCONV	Masked left, right conversion
MM	-	NLS monetary conversion

Code(s)	Present	Description
MO	-	Octal conversion
MP	-	Packed decimal conversion
MT	ICONV/OCONV	Time conversion
MU0C	-	Hexadecimal Unicode character conversion
MX	ICONV/OCONV	Hexadecimal conversion
MY	OCONV	ASCII conversion
NL	-	NLS Arabic numeral conversion
NR	-	Roman numeral conversion
P	OCONV	Pattern-matching
Q	-	Exponential conversion
R	OCONV	Range function
S	OCONV	Soundex conversion
S;val;zeroval	OCONV	Substitution for non-zero values and zero values
T	OCONV	Text extraction
T<filename>	-	File translation
TI	-	International time conversion
U<hex>	OCONV	User exit to entrypoint <hex>. The specified entrypoint must be a hexadecimal number.
ZV	OCONV	Dynamic array element extraction

## 1.3 Compiler Directives

**Table 1–26: MultiValue Basic - Compiler Directives**

Syntax Item	Present	Caché Alternative Exists
#INCLUDE	X	-
#PRAGMA	X	
\$CHAIN	-	-
\$COPYRIGHT	X	-
\$DEFINE	X	-
\$EJECT	-	-
\$IFDEF	X	-
\$IFNDEF	X	-
\$INCLUDE	X	-



Syntax Item	Present	Caché Alternative Exists
\$INSERT	X	-
\$MAP	-	X
\$PAGE	-	-
\$UNDEFINE	X	-

For details, refer to “[Compiler Directives](#)” in the *Caché MVBasic Language Reference*.

## 1.4 System Variables (@ Variables)

**Table 1–27: MultiValue Basic - @-Variables**

Syntax Item	Present	Caché Alternative Exists
@ABORT.CODE	-	-
@ACCOUNT	X	-
@AM	X	-
@ANS	X	-
@AUTHORIZATION	X	-
@COMMAND.STACK	X	-
@COMMAND	X	-
@CRTHIGH	X	-
@CRTWIDE	X	-
@DATA	X	-
@DATA.PENDING	X	-
@DATE	X	-
@DAY	X	-
@FALSE	X	-
@FILE.NAME	X	-
@FILENAME	X	-
@FM	X	-
@HDBC	-	-
@HSTMT	-	-
@ID	X	-
@IM	X	-
@ISOLATION	-	-
@LEVEL	X	-

Syntax Item	Present	Caché Alternative Exists
@LOGNAME	X	-
@LPTRHIGH	X	-
@LPTRWIDE	X	-
@MONTH	X	-
@MV	-	-
@NB	X	-
@ND	X	-
@NI	X	-
@NS	X	-
@NULL.STR	-	-
@NULL	-	-
@NV	X	-
@OPTION	-	-
@PARASENTECE	X	-
@PATH	X	-
@RECCOUNT	X	-
@RECORD	X	-
@SCHEMA	-	-
@SELECTED	X	-
@SENTENCE	X	-
@SM	X	-
@STDFIL	X	-
@SVM	X	-
@SYS.BELL	X	-
@SYSTEM.RETURN.CODE	X	-
@SYSTEM.SET	X	-
@TERM.TYPE	X	-
@TIME	X	-
@TM	X	-
@TRANSACTION.ID	-	-
@TRANSACTION.LEVEL	-	-
@TRANSACTION	X	-
@TRUE	X	-
@TTY	X	-

Syntax Item	Present	Caché Alternative Exists
@UDTNO	X	-
@UID	X	-
@USER.NO	X	-
@USER.TYPE	X	-
@USER.RETURN.CODE	X	-
@USERNO	X	-
@USER $n$	X	-
@VM	X	-
@WHO	X	-
@YEAR4	X	-
@YEAR	X	-

For details, refer to “[System Variables](#)” in the *Caché MVBasic Language Reference*.

## 1.5 String Extraction Operators

**Table 1–28: MultiValue Basic - String Extraction**

Syntax Item	Present	Caché Alternative Exists
<>	X	-
[]	X	-

For details, refer to “[Operators](#)” in the *Caché MVBasic Language Reference*.

