

COBOL Intrinsic Functions Cheatsheet

1. String Handling Functions

- FUNCTION LENGTH(string) - Returns total length including spaces.
- FUNCTION TRIM(string) - Removes leading and trailing spaces.
- FUNCTION UPPER-CASE(string) - Converts string to uppercase.
- FUNCTION LOWER-CASE(string) - Converts string to lowercase.
- FUNCTION REVERSE(string) - Reverses the string.
- FUNCTION CHAR(n) - Returns character for ASCII value n.
- FUNCTION ORD(string) - Returns ASCII value of first character.

2. Mathematical Functions

- FUNCTION ABS(x) - Absolute value.
- FUNCTION MOD(x, y) - Modulo (remainder).
- FUNCTION REM(x, y) - Remainder.
- FUNCTION SQRT(x) - Square root.
- FUNCTION EXP(x) - e raised to power x.
- FUNCTION LOG(x) - Natural logarithm.
- FUNCTION FACTORIAL(n) - Returns factorial of n.
- FUNCTION RANDOM(x) - Returns pseudo-random number.

3. Date and Time Functions

- FUNCTION CURRENT-DATE - Current date & time (YYYYMMDDHHMISS+HHMM).
- FUNCTION DATE-OF-INTEGER(n) - Converts integer to date.
- FUNCTION INTEGER-OF-DATE(date) - Converts date to integer.
- FUNCTION DAY-OF-WEEK(date) - Returns weekday number (1 = Monday).

4. Conversion and Formatting

- FUNCTION NUMVAL(string) - Converts numeric string to number.
- FUNCTION NUMVAL-C(string) - Handles currency symbols.
- FUNCTION STRING-TO-HEX(string) - Converts string to hexadecimal.
- FUNCTION HEX-TO-STRING(hex) - Converts hex to string.
- FUNCTION ORD-MAX(string) - Max ASCII value in string.

5. Statistical / Aggregate Functions

- FUNCTION MEAN(...) - Average value.
- FUNCTION MEDIAN(...) - Median of numbers.
- FUNCTION VARIANCE(...) - Variance of values.
- FUNCTION STANDARD-DEVIATION(...) - Standard deviation.

6. Common Examples

- MOVE FUNCTION TRIM(" COBOL ") TO WS-RESULT.
- MOVE FUNCTION LENGTH(WS-NAME) TO WS-LEN.
- MOVE FUNCTION CURRENT-DATE TO WS-DATE.