

# OpenCOBOL 1.1

## [06FEB2009 Version]

### Textpad Integration

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Textpad is a product of Helios Software Solutions

<http://www.textpad.com>

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## Introduction

OpenCOBOL is a COBOL compiler and runtime environment. The OpenCOBOL compiler generates C code which is automatically compiled and linked by the GNU C compiler (gcc) and the GNU linker/loader (ld).

The Textpad editor, from Helios Software, is an amazingly powerful tool to use as an editor. With just a little bit of tweaking, you can turn Textpad into a powerful Integrated Development Environment (IDE) for OpenCOBOL.

In addition to providing a powerful text-editing solution capable of editing multiple files concurrently in a series of tabbed windows, Textpad can also perform syntax recognition against anything being edited and “colorize” that file according to the appropriate syntax parsing rules. A sample screenshot of this syntax highlighting at work is shown in [Figure 1](#).

In addition to syntax highlighting, Textpad can be configured to provide any number of additional “tools” – Windows commands that can be executed against the OpenCOBOL program being edited in the current tab. This document will show you how to add such tools as:

- **Command Window** – opening a Windows command window (cmd.exe) with the folder in which the edited program resides being pre-selected as the current directory.
- **Compile OpenCOBOL Program** – running the OpenCOBOL compiler (cobc) against the current program.

Figure 1 - Textpad Screenshot Showing OpenCOBOL Syntax Highlighting

```

1  >>>SOURCE FIXED
2  IDENTIFICATION DIVISION.
3  PROGRAM-ID.      WINSYSTEM.
4  *****
5  ** This is an OpenCOBOL subroutine that will submit a Windows **
6  ** command to the Windows "cmd.exe" command shell for proces- **
7  ** sing. This is needed if your OpenCOBOL version was built   **
8  ** using Cygwin because the "SYSTEM" built-in subroutine will **
9  ** submit commands to the Cygwin shell rather than the Windows **
10 ** shell.
11 **
12 ** CALL "WINSYSTEM" USING <cmd>
13 **
14 ** >>> Note that the subroutine name MUST be specified in <<< **
15 ** >>> upper-case
16 **
17 ** DATE CHANGE DESCRIPTION
18 ** =====
19 ** GC0909 Initial coding
20 **
21 ENVIRONMENT DIVISION.
22 CONFIGURATION SECTION.
23 REPOSITORY.
24     FUNCTION ALL INTRINSIC.
25 DATA DIVISION.
26 WORKING-STORAGE SECTION.
27     01  Cmd-Len
28     01  Shell-Cmd
29 LINKAGE SECTION.
30     01  Cmd
31 PROCEDURE DIVISION USING Cmd.
32 000-Main.
33     CALL "C$PARAMSIZE" USING 1.
34     MOVE RETURN-CODE TO Cmd-Len.
35     MOVE SPACES TO Shell-Cmd.
36     STRING "cmd.exe /C " *> Force the command to be executed by Windows
37     Cmd<1:Cmd-Len>
38     INTO Shell-Cmd
39     END-STRING
40     DISPLAY Shell-Cmd UPON SYSERR
41     CALL "SYSTEM"
42     USING TRIM<Shell-Cmd>
43     END-CALL
44
45 099-Wave-Bye-Bye .
46     GOBACK
47
48
49

```

## Configuring Textpad for OpenCOBOL Syntax Highlighting

Once you have downloaded and installed Textpad (don't forget to pay for it – it's WELL WORTH THE NOMINAL PRICE) from the Textpad website ([www.textpad.com](http://www.textpad.com)), perform the following steps:

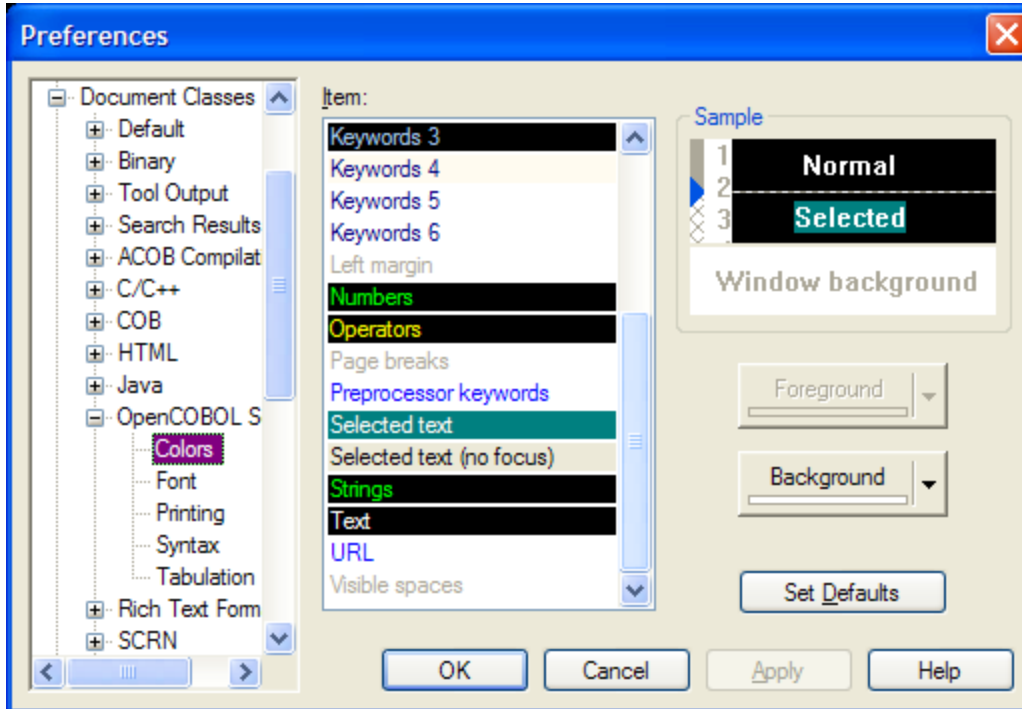
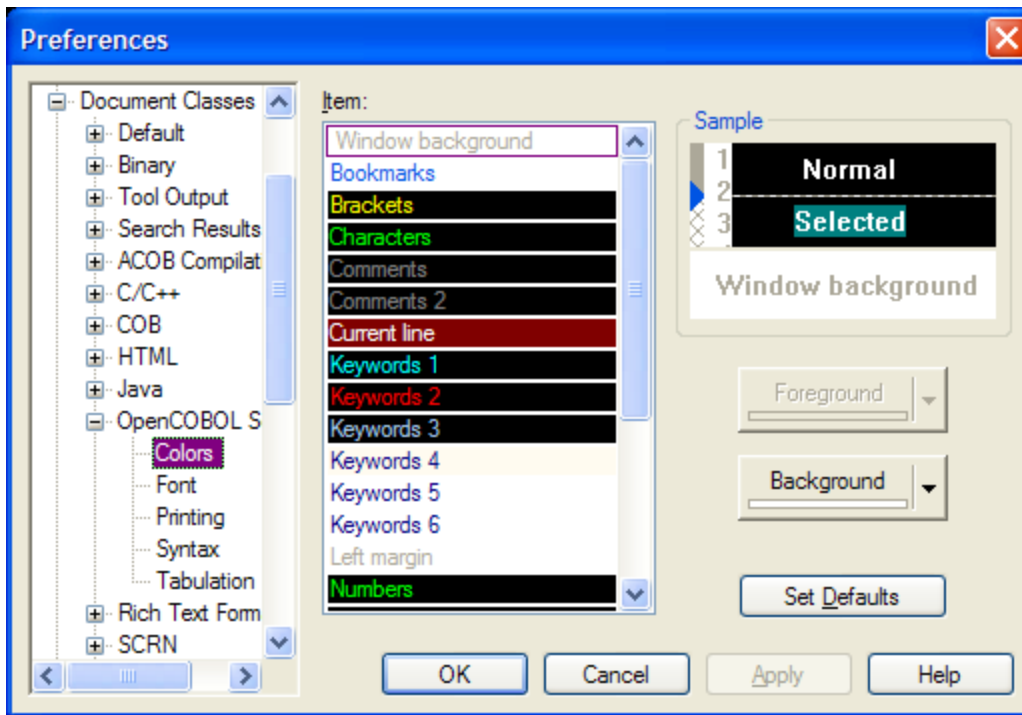
1. Open Textpad and execute its "Configure / Preferences / Folders" command. Identify the folder associated with "Syntax".

2. Use Windows Explorer to locate and open the folder identified in #1 above and create a new (empty) text file named "opencobol.syn".
3. Back in Textpad, create a new document class specifically for OpenCOBOL ("OpenCOBOL Source"). To do this...
  - a. Execute the "Configure / New Document Class..." command.
  - b. Specify "OpenCOBOL Source" as the document class name, then press the "Next" button.
  - c. Specify "\*.cbl,\*.cpy" as the two extensions that will be associated with this document class, then press the "Next" button.
  - d. Click the "Enable syntax highlighting" switch and select "opencobol.syn" from the pull-down list of available syntax files, then press the "Next" button.
  - e. Click the "Finish" button to register the new document class with Textpad.
  - f. Associate this new document class with ".cbl" and ".cpy" extensions.
4. Now you need to actually define the OpenCOBOL syntax highlighting rules by populating the "opencobol.sys" file (that is empty right now) with the values found in the "
5. " section of this document, as follows:
  - a. Execute the "Configure / Preferences " Textpad menu command.
  - b. Open the "Document Classes" list by clicking on the "+" icon.
  - c. Open the "OpenCOBOL Source" document class by clicking on its "+" icon.
  - d. Single-click the "Syntax" element under the document class.
  - e. In the "Other characters in words" field, specify the characters "-\_" (hyphen and underscore) to indicate that both of these characters may be used when forming words in OpenCOBOL.
  - f. The "Syntax definition file" should have "opencobol.syn" in it. Click the "Open" button next to it, then click the "OK" button. The contents of that file (there aren't any yet) will be displayed.
  - g. Select the opencobol.syn file contents found in the "[The opencobol.syn File](#)" section of this document, copy them to the clipboard and paste them into the opencobol.syn file in Textpad.
  - h. Close Textpad, specifying "Save" when prompted by "Save changes to opencobol.syn?".

At this point, you've "taught" OpenCOBOL about a new class of documents and you've defined how it can parse those documents to recognize syntactical elements in those documents. There are two tasks remaining to complete the job of fully "training" Textpad.

6. Next, you need to tell Windows that Textpad should be used as the default program with which `*.cbl` and `*.cpy` programs should be opened when double-clicked from Windows Explorer. This can (conveniently) be accomplished from within Textpad itself, as follows:
  - a. Start Textpad (if it isn't already running) and execute the **"Configure / Preferences"** command.
  - b. Select "Associated Files" from the list.
  - c. In the "New Extension" field, specify **".cbl"** (don't use an asterisk); in the "Description" field, specify **"OpenCOBOL Program"**; click the "Add" button.
  - d. Repeat **c** for an extension of **".cpy"** and a description of **"OpenCOBOL Copybook"**.
  - e. Click "OK".
  - f. Click the "New document" tool on the Textpad toolbar (it looks like a blank sheet of paper) and paste in the sample program found in this document in the ["A Sample OpenCOBOL Program"](#) section.
  - g. Close Textpad and save the sample OpenCOBOL program to the location of your choice.
  - h. Test your file association by double-clicking the sample OpenCOBOL program file.
7. Finally, you need to specify the colors to use for syntax highlighting. You'll find this MUCH easier if you are actually editing an OpenCOBOL program – why not use the one you created in step [6.g](#) above?
  - a. Once again, execute Textpad's **"Configure / Preferences"** command.
  - b. Open the "Document Classes" list by clicking on the "+" icon.
  - c. Open the "OpenCOBOL Source" document class by clicking on its "+" icon.
  - d. Single-click the "Colors" element under the document class.
  - e. Specify colors you wish to use for the various syntactical elements of OpenCOBOL source code by single-clicking an element,
  - f. See [Figure 2](#) for examples of how I set up Textpad to produce the screenshot shown in [Figure 1](#).

Figure 2 - Sample Textpad Color Settings for "OpenCOBOL Source" Colors



## Adding Some Useful OpenCOBOL Tools

Two tools you will find useful for OpenCOBOL programs are:

- A tool to open a Windows command shell window in the directory where the file currently being edited resides. Actually, this may be useful for ANY type of file!
- A tool to compile an OpenCOBOL program.

To add a command window tool:

1. Start Textpad (if it isn't already running) and execute the **"Configure / Preferences"** command.
2. Open the Tools list by pressing the "+" icon.
3. Click the "Tools" entry on the list.
4. Click the "Add" button and select the "DOS Command" choice.
5. Enter the command **"start "Textpad Command Window" cmd.exe"** in the DOS Command window. Press the OK button.
6. Press the 'Apply' button.
7. Single-click the new tools entry in the list in the middle of the preferences window. You may now change the tools caption to whatever you wish – **"Command Window"**, for example. Click the "Apply" button twice – once to close the caption edit and a second time to actually rename the tool.
8. Now single-click the new tool in the list of tools on the left part of the preference screen (under the "Tools" header) and make the following changes to its definition:
  - Make sure **"\$FileDir"** is in the "Initial folder" field
  - Make sure only the "Close DOS window on exit" option is checked
9. Click the "Apply" button.
10. Click the "OK" button.

To add an OpenCOBOL compiler tool:

1. Start Textpad (if it isn't already running) and execute the **"Configure / Preferences"** command.
2. Open the Tools list by pressing the "+" icon.
3. Click the "Tools" entry on the list.
4. Click the "Add" button and select the "Program" choice.
5. Use the "Select File" dialog that appears to locate the folder where your OpenCOBOL compiler resides (probably C:\OpenCOBOL\bin). Select the "cobc" program and press the OK button.
6. Press the 'Apply' button.

7. Single-click the new tools entry in the list in the middle of the preferences window. You may now change the tools caption to whatever you wish – “**Command Window**”, for example. Click the “Apply” button twice – once to close the caption edit and a second time to actually rename the tool.
8. Now single-click the new tool in the list of tools on the left part of the preference screen (under the “Tools” header) and make the following changes to its definition:
  - Edit the “Parameters” field to include the command-line arguments you would most-frequently use with the cobc command, using the string “**\$File**” at the point where you would specify the program source file name.
  - Make sure “**\$FileDir**” is in the “Initial folder” field
  - Make sure only the “Prompt for parameters” and “Capture output” options are checked
  - Insert the following string (without the leading and trailing quote characters) into the “Regular expression to match output” field:  
**“^\.+\):\[0-9]+\):”**
  - Set the “File” pull-down to a value of “1”, the “Line” pull-down to a value of “2” and the “Column” pull-down to an empty value.
9. Click the “Apply” button.
10. Click the “OK” button.

When you use this tool, you’ll be prompted for any parameters to supply the compiler (the ones you specified in #8 above will already be present – you may edit them as you require for the compilation). A “Tool Output” window will be created and any compilation warning and/or error messages will be displayed there. If you then double-click on one of the error/warning messages, you’ll be taken back to the program window and the current line will be positioned to the line containing the error/warning!

## The opencobol.syn File

The following is a complete listing of the opencobol.syn file, appropriate for use with the latest version of Textpad.

```
; syntax file for openCOBOL v1.1 [06FEB2009]
C=1

[Syntax]
Namespace1 = 6
IgnoreCase = Yes
InitKeywordChars = ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
KeywordChars = ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789-
BracketChars=(
OperatorChars=><=+/*-
PreprocStart =
SyntaxStart =
```



```
SyntaxEnd =  
CommentStart =  
CommentEnd =  
CommentStartAlt =  
CommentEndAlt =  
SingleComment = *  
SingleCommentCol = 7  
SingleCommentAlt = *>  
SingleCommentColAlt = 0  
StringStart = "  
StringEnd = "  
StringAlt =  
StringEsc =  
CharStart = '  
CharEnd = '  
CharEsc =
```

[Preprocessor keywords]

[Keywords 1]

```
ACCEPT  
ACCESS  
ADD  
ADDRESS  
ADVANCING  
AFTER  
ALL  
ALLOCATE  
ALPHABET  
ALPHABETIC  
ALPHABETIC-LOWER  
ALPHABETIC-UPPER  
ALPHANUMERIC  
ALPHANUMERIC-EDITED  
ALSO  
ALTER  
ALTERNATE  
AND  
ANY  
ARE  
AREA  
AREAS  
ARGUMENT-NUMBER  
ARGUMENT-VALUE  
AS  
ASCENDING  
ASSIGN  
AT  
AUTO  
AUTO-SKIP  
AUTOMATIC  
AUTOTERMINATE  
BACKGROUND-COLOR  
BASED  
BEEP  
BEFORE  
BELL  
BINARY  
BINARY-C-LONG  
BINARY-CHAR  
BINARY-DOUBLE  
BINARY-LONG  
BINARY-SHORT  
BLANK  
BLINK  
BLOCK  
BOTTOM  
BY  
BYTE-LENGTH  
CALL
```

CANCEL  
CF  
CH  
CHAINING  
CHARACTER  
CHARACTERS  
CLASS  
CLOSE  
CODE  
CODE-SET  
COL  
COLLATING  
COLS  
COLUMN  
COLUMNS  
COMMA  
COMMAND-LINE  
COMMIT  
COMMON  
COMP  
COMP-1  
COMP-2  
COMP-3  
COMP-4  
COMP-5  
COMP-X  
COMPUTATIONAL  
COMPUTATIONAL-1  
COMPUTATIONAL-2  
COMPUTATIONAL-3  
COMPUTATIONAL-4  
COMPUTATIONAL-5  
COMPUTATIONAL-X  
COMPUTE  
CONFIGURATION  
CONSTANT  
CONTAINS  
CONTENT  
CONTINUE  
CONTROL  
CONTROLS  
CONVERTING  
COPY  
CORR  
CORRESPONDING  
COUNT  
CRT  
CURRENCY  
CURSOR  
CYCLE  
DATA  
DATE  
DAY  
DAY-OF-WEEK  
DE  
DEBUGGING  
DECIMAL-POINT  
DECLARATIVES  
DEFAULT  
DELETE  
DELIMITED  
DELIMITER  
DEPENDING  
DESCENDING  
DETAIL  
DISK  
DISPLAY  
DIVIDE  
DIVISION  
DOWN  
DUPLICATES

DYNAMIC  
EBCDIC  
ELSE  
END  
END-ACCEPT  
END-ADD  
END-CALL  
END-COMPUTE  
END-DELETE  
END-DISPLAY  
END-DIVIDE  
END-EVALUATE  
END-IF  
END-MULTIPLY  
END-OF-PAGE  
END-PERFORM  
END-READ  
END-RETURN  
END-REWRITE  
END-SEARCH  
END-START  
END-STRING  
END-SUBTRACT  
END-UNSTRING  
END-WRITE  
ENTRY  
ENVIRONMENT  
ENVIRONMENT-NAME  
ENVIRONMENT-VALUE  
EOL  
EOP  
EOS  
EQUAL  
EQUALS  
ERASE  
ERROR  
ESCAPE  
EVALUATE  
EXCEPTION  
EXCLUSIVE  
EXIT  
EXTEND  
EXTERNAL  
FALSE  
FD  
FILE  
FILE-CONTROL  
FILE-ID  
FILLER  
FINAL  
FIRST  
FLOAT-LONG  
FLOAT-SHORT  
FOOTING  
FOR  
FOREGROUND-COLOR  
FOREVER  
FREE  
FROM  
FULL  
FUNCTION  
FUNCTION-ID  
GENERATE  
GIVING  
GLOBAL  
GO  
GOBACK  
GREATER  
GROUP  
HEADING  
HIGH-VALUE

HIGH-VALUES  
HIGHLIGHT  
I-O  
I-O-CONTROL  
ID  
IDENTIFICATION  
IF  
IGNORE  
IGNORING  
IN  
INDEX  
INDEXED  
INDICATE  
INITIAL  
INITIALIZE  
INITIALIZED  
INITIATE  
INPUT  
INPUT-OUTPUT  
INSPECT  
INTO  
INTRINSIC  
INVALID  
IS  
JUST  
JUSTIFIED  
KEY  
LABEL  
LAST  
LEADING  
LEFT  
LENGTH  
LESS  
LIMIT  
LIMITS  
LINAGE  
LINAGE-COUNTER  
LINE  
LINES  
LINKAGE  
LOCAL-STORAGE  
LOCALE  
LOCK  
LOW-VALUE  
LOW-VALUES  
LOWLIGHT  
MANUAL  
MEMORY  
MERGE  
MINUS  
MODE  
MOVE  
MULTIPLE  
MULTIPLY  
NATIONAL  
NATIONAL-EDITED  
NATIVE  
NEGATIVE  
NEXT  
NO  
NOT  
NULL  
NULLS  
NUMBER  
NUMBERS  
NUMERIC  
NUMERIC-EDITED  
OBJECT-COMPUTER  
OCCURS  
OF  
OFF

OMITTED  
ON  
ONLY  
OPEN  
OPTIONAL  
OR  
ORDER  
ORGANIZATION  
OTHER  
OUTPUT  
OVERFLOW  
OVERLINE  
PACKED-DECIMAL  
PADDING  
PAGE  
PARAGRAPH  
PERFORM  
PF  
PH  
PIC  
PICTURE  
PLUS  
POINTER  
POSITION  
POSITIVE  
PRESENT  
PREVIOUS  
PRINTER  
PRINTING  
PROCEDURE  
PROCEDURE-POINTER  
PROCEDURES  
PROCEED  
PROGRAM  
PROGRAM-ID  
PROGRAM-POINTER  
PROMPT  
QUOTE  
QUOTES  
RANDOM  
RD  
READ  
RECORD  
RECORDING  
RECORDS  
RECURSIVE  
REDEFINES  
REEL  
REFERENCE  
RELATIVE  
RELEASE  
REMAINDER  
REMOVAL  
RENAMES  
REPLACING  
REPORT  
REPORTING  
REPORTS  
REPOSITORY  
REQUIRED  
RESERVE  
RETURN  
RETURNING  
REVERSE-VIDEO  
REWIND  
REWRITE  
RF  
RH  
RIGHT  
ROLLBACK  
ROUNDED

RUN  
SAME  
SCREEN  
SCROLL  
SD  
SEARCH  
SECTION  
SECURE  
SEGMENT-LIMIT  
SELECT  
SENTENCE  
SEPARATE  
SEQUENCE  
SEQUENTIAL  
SET  
SHARING  
SIGN  
SIGNED  
SIGNED-INT  
SIGNED-LONG  
SIGNED-SHORT  
SIZE  
SORT  
SORT-MERGE  
SOURCE  
SOURCE-COMPUTER  
SPACE  
SPACES  
SPECIAL-NAMES  
STANDARD  
STANDARD-1  
STANDARD-2  
START  
STATUS  
STOP  
STRING  
SUBTRACT  
SUM  
SUPPRESS  
SYMBOLIC  
SYNC  
SYNCHRONIZED  
TALLYING  
TAPE  
TERMINATE  
TEST  
THAN  
THEN  
THROUGH  
THRU  
TIME  
TIMES  
TO  
TOP  
TRAILING  
TRANSFORM  
TRUE  
TYPE  
UNDERLINE  
UNIT  
UNLOCK  
UNSIGNED  
UNSIGNED-INT  
UNSIGNED-LONG  
UNSIGNED-SHORT  
UNSTRING  
UNTIL  
UP  
UPDATE  
UPON  
USAGE

USE  
USING  
VALUE  
VALUES  
VARYING  
WAIT  
WHEN  
WITH  
WORDS  
WORKING-STORAGE  
WRITE  
YYYYDDD  
YYYYMMDD  
ZERO  
ZEROES  
ZEROS

[Keywords 2]

ABS  
ACOS  
ANNUITY  
ASIN  
ATAN  
BYTE-LENGTH  
CHAR  
COMBINED-DATETIME  
CONCATENATE  
COS  
CURRENT-DATE  
DATE-OF-INTEGER  
DATE-TO-YYYYMMDD  
DAY-OF-INTEGER  
DAY-TO-YYYYDDD  
E  
EXCEPTION-FILE  
EXCEPTION-LOCATION  
EXCEPTION-STATEMENT  
EXCEPTION-STATUS  
EXP  
EXP10  
FACTORIAL  
FRACTION-PART  
INTEGER  
INTEGER-OF-DATE  
INTEGER-OF-DAY  
INTEGER-PART  
LENGTH  
LOCALE-DATE  
LOCALE-TIME  
LOCALE-TIME-FROM-SECONDS  
LOG  
LOG10  
LOWER-CASE  
MAX  
MEAN  
MEDIAN  
MIDRANGE  
MIN  
MOD  
NUMVAL  
NUMVAL-C  
ORD  
ORD-MAX  
ORD-MIN  
PI  
PRESENT-VALUE  
RANDOM  
RANGE  
REM  
REVERSE  
SECONDS-FROM-FORMATTED-TIME

SECONDS-PAST-MIDNIGHT  
SIGN  
SIN  
SQRT  
STANDARD-DEVIATION  
STORED-CHAR-LENGTH  
SUBSTITUTE  
SUBSTITUTE-CASE  
SUM  
TAN  
TEST-DATE-YYYYMMDD  
TEST-DAY-YYYYDDD  
TRIM  
UPPER-CASE  
VARIANCE  
WHEN-COMPILED  
YEAR-TO-YYYY

[Keywords 5]

C01  
C02  
C03  
C04  
C05  
C06  
C07  
C08  
C09  
C10  
C11  
C12  
CONSOLE  
FORMFEED  
PRINTER  
SWITCH-1  
SWITCH-2  
SWITCH-3  
SWITCH-4  
SWITCH-5  
SWITCH-6  
SWITCH-7  
SWITCH-8  
SYSERR  
SYSIN  
SYSIPT  
SYSLIST  
SYSLST  
SYSOUT

[Keywords 4]

[Keywords 6]

[Keywords 7]



## A Sample OpenCOBOL Program

```

>>SOURCE FORMAT FIXED
IDENTIFICATION DIVISION.
*****
** This sample OpenCOBOL program serves as a good tool to use **
** when experimenting with colorizing Textpad syntax high- **
** lighting. **
*****
PROGRAM-ID. demosyntax.
ENVIRONMENT DIVISION.
CONFIGURATION SECTION.
REPOSITORY.
    FUNCTION ALL INTRINSIC. *> Eliminate need for "FUNCTION" before functions
DATA DIVISION.
WORKING-STORAGE SECTION.
01 Account-Type          PIC X(1).
   88 Interest-Bearing-Checking VALUE 'c', 'c'.
   88 Statement-Savings    VALUE 's', 'S'.
   88 Platinum-Savings    VALUE 'p', 'P'.
01 ADB-Char              PIC X(10).
01 Ave-Daily-Balance     PIC 9(7)V99.
01 Formatted-Amount      PIC Z(6)9.99.
01 Interest-Amount       PIC 9(7)V99.
PROCEDURE DIVISION.
000-Main.
    PERFORM UNTIL EXIT *> 12MAR2010 OpenCOBOL 1.1
*   PERFORM FOREVER *> 06FEB2009 OpenCOBOL 1.1
        DISPLAY
            "Enter Account Type (c,s,p,other): "
            WITH NO ADVANCING
        END-DISPLAY
        ACCEPT
            Account-Type
        END-ACCEPT
        IF Account-Type = SPACES
            STOP RUN
        END-IF
        DISPLAY
            "Enter Ave Daily Balance (nnnnnnn.nn): "
            WITH NO ADVANCING
        END-DISPLAY
        ACCEPT
            ADB-Char
        END-ACCEPT
        >>SOURCE FORMAT FREE
        MOVE NUMVAL(ADB-Char) TO Ave-Daily-Balance
        EVALUATE TRUE ALSO Ave-Daily-Balance
            WHEN Interest-Bearing-Checking ALSO 0.00 THRU 999.99
                *> No Interest
                MOVE 0 TO Interest-Amount
            WHEN Interest-Bearing-Checking ALSO 1000.00 THRU 1499.99
                *> 0.5% Interest
                COMPUTE Interest-Amount ROUNDED = 0.005 * Ave-Daily-Balance
            WHEN Interest-Bearing-Checking ALSO ANY
                *> 1.0% Interest
                COMPUTE Interest-Amount ROUNDED = 0.010 * Ave-Daily-Balance
            WHEN Statement-Savings ALSO 0.00 THRU 10000.00
                *> 1.0% Interest
                COMPUTE Interest-Amount ROUNDED = 0.010 * Ave-Daily-Balance
            WHEN Statement-Savings ALSO ANY
                *> 1.0% Interest on 1st $10000 PLUS 1.5% on amount over $10000
                COMPUTE Interest-Amount ROUNDED = 0.010 * 10000
                    + 0.015 * (Ave-Daily-Balance - 10000)
            WHEN Platinum-Savings ALSO ANY
                *> 2% Interest
                COMPUTE Interest-Amount ROUNDED = 0.020 * Ave-Daily-Balance
            WHEN OTHER
                *> No Interest
                MOVE 0 TO Interest-Amount
        END-EVALUATE
        >>SOURCE FORMAT FIXED
        MOVE Interest-Amount TO Formatted-Amount
        DISPLAY "Accrued Interest = " Formatted-Amount
    END-PERFORM
    .

```