# Suprtool2

## Programming with Suprtool2

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There are two ways to execute Suprtool commands for a program:

1. Run Suprtool first, then run the program
2. Have the program call Suprtool2
Invoking Suprtool for an end-user

- Any 3GL program can invoke Suprtool tasks, including COBOL, QUICK, FORTRAN, TRANSACT, and SPL

- Call the Suprtool2 interface routine

  ```
  procedure suprtool2 (suprcontrol);
  array suprcontrol;
  ```

- Each call to Suprtool2 passes one line of commands that can include MPE or Suprlink commands

- Suprtool functions are invisible to the end-user
Suprtool2 control Parm

01 supr-control.
  05 supr-version pic s9(4) comp value 4.
  05 supr-status pic s9(4) comp.
    88 supr-ok value zeros.
    88 supr-bad-msgfile value 1.
    88 supr-aborted value 2.
    88 supr-create-error value 3.
    88 supr-bad-total-type value 4.
  05 supr-command-line pic x(256) value spaces.
  05 supr-flags.
    10 supr-priority pic x(2) value spaces.
      88 supr-priority-cs value "CS".
      88 supr-priority-ds value "DS".
      88 supr-priority-es value "ES".

{continued}
Suprtool2 control Parm continued

10 supr-maxdata pic s9(9) comp value 0.
10 supr-print-state pic x(2) value "ER".
  88 supr-print-on-error value "ER".
  88 supr-print-always value "AL".
  88 supr-print-never value "NE".
10 supr-total-type pic x(2) value "CO".
  88 supr-total-cobol value "CO".
  88 supr-total-ascii value "AS".
10 supr-other-flags pic x(18) value spaces.
  05 supr-totals pic s9(17) sign is trailing separate character occurs 15 times.
  05 supr-out-count pic s9(9) comp.
  05 supr-workspace pic x(20) value spaces.
Calls to Suprtool2 from a COBOL program

$include cobol.qlibsrc.robelle

00-main section.
   perform 02-get-if-specs.
move "base invory.data,5,dev" to supr-command-line.
   perform 01-call-suprtool.
move "get invrec" to supr-command-line.
   perform 01-call-suprtool.
move if-command to supr-command-line.
   perform 01-call-suprtool.
move "purge selitem" to supr-command-line.
   perform 01-call-suprtool.

{continued}
Calls to Suprtool2 from a COBOL program continued

```
move "output selitem" to supr-command-line.
perform 01-call-suprtool.

move "extract item,descript" to supr-command-line.
perform 01-call-suprtool.

move "sort item" to supr-command-line.
perform 01-call-suprtool.

move "exit" to supr-command-line.
perform 01-call-suprtool.
```

- Actual call to Suprtool

```
01-call-suprtool.
call "Suprtool2" using supr-control.
if not supr-ok then
    display "Suprtool interface error number: ", supr-status.
```
Prompting users for selection criteria from a COBOL program

- Use a buffer to format the IF command
  
  ```cobol
  01 if-command.
  05 filler pic x(9) value "IF ITEM=``".
  05 sel-prefix pic x(4).
  05 filler pic x(2) value " ` ".
  ```

- Code to insert selection criteria into the IF buffer
  
  ```cobol
  02-get-if-specs.
  display "Enter 4-character item prefix to select:".
  accept input-buf.
  move input-buf to sel-prefix.
  ```

- Code in main program
  
  ```cobol
  perform 02-get-if-specs.
  move if-command to supr-command-line.
  perform 01-call-suprtool.
  ```
Installing Suprtool2 on MPE V

- MPE V uses the CM version of Suprtool2

```
:run cmprog;lib = p

:segmenter    {load into your SL file}
   -sl sl.pub
   -purgesl segment,suprtool
   -usl st2usl.pub.robelle
   -addsl suprtool
   -exit
```
Installing Suprtool2 on MPE/iX

- MPE/iX uses the NM version of Suprtool2

- Run your programs with
  
  \texttt{:run nmprog;xl = "st2xl.pub.robelle"}

- Or copy the module to your own XL file

  \texttt{:linkedit}
  
  \texttt{-xl xl.pub}
  
  \texttt{-copy xl;from = st2xl.pub.robelle;& replace}
  
  \texttt{-exit}
Three ways COBOL programs can use Suprtool

- Batch report programs
  - Run Suprtool and create an output file
  - Read and format output file

- On-line programs
  - Call Suprtool2 routine
  - Pass commands to a Suprtool child process
  - Read Suprtool output file

- Call Speed Demon routine instead of DBGET to read every record
Summary

- Call Suprtool2 routine
- Execute Suprtool program as a child process
- Read results from a file created by Suprtool