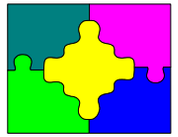

Suprtool2

Programming with Suprtool2

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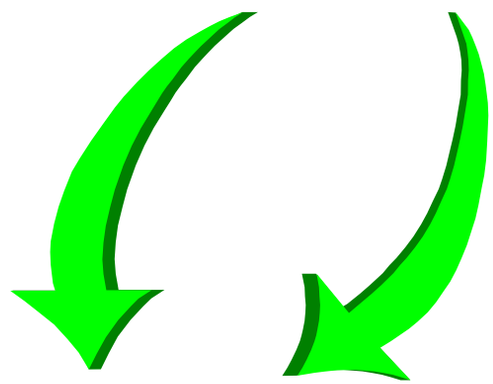
Calling Suprtool from a program

- 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.
```

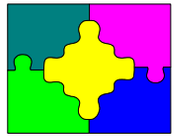
Calls to Suprtool2 from a COBOL program

```
$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

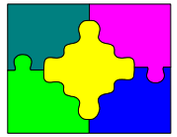


```
move "output selitem"        to supr-command-line.
                    perform 01-call-suprtool.
move "extract item,descript"     to supr-command-line.
                    perform 01-call-suprtool.
move "sort item"             to supr-command-line.
                    perform 01-call-suprtool.
move "exit"                  to supr-command-line.
                    perform 01-call-suprtool.
```

- Actual call to Suprtool

```
01-call-surtoool.
   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

```
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

```
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

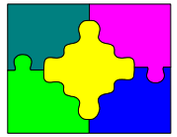
```
perform 02-get-if-specs.
move if-command to supr-command-line.
perform 01-call-suprtool.
```

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
```



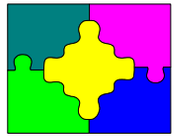
Installing Suprtool2 on MPE/iX

- MPE/iX uses the NM version of Suprtool2
- Run your programs with

```
:run nmprog;xl = "st2xl.pub.robelle"
```

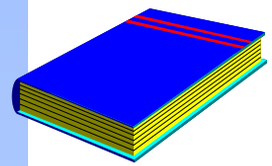
- Or copy the module to your own XL file

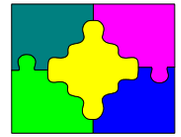
```
:linkedit
-xl xl.pub
-copy xl;from = st2xl.pub.robelle;& replace
-exit
```



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





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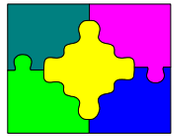
- Call Suprtool2 routine
- Execute Suprtool program as a child process
- Read results from a file created by Suprtool