

FILE NAME: CPECTELL.DOC

PACKAGE NAME: CPECTELL

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**FUNCTION:**

Documentation for the CPECTELL package. The CPECTELL package is a sample using the REXX CPI-C interface which allows one to send a message from one OS/2 workstation to another.

**RELATED FILES:**

CPECTELL.CMD - A CPICREXX application for OS/2. A command line REXX exec which sends a message to the specified destination.

CPICHEAR.CMD - A CPICREXX application for OS/2. This REXX exec receives the message sent using CPECTELL.CMD and displays it using to the OS/2 workstation screen using the POPUP.EXE which is included with the package.

CPICHEAR.EXE - This is a very small C program. It starts CPICHEAR.CMD. This program is included so the CPICHEAR.CMD can run without a special definition for the transaction program.

CPICHEAR.C - C source for CPICHEAR.EXE  
CPICHEAR.DEF - Definition file used to produce CPICHEAR.EXE  
CPICHEAR.MAK - Make file used to produce CPICHEAR.EXE

POPUP.EXE - This is a small C program designed so the CPICHEAR.CMD can "POPUP"

the message it receives on the screen.

POPUP.C - C source for POPUP.EXE  
POPUP.DEF - Definition file used to produce POPUP.EXE  
POPUP.MAK - Make file used to produce POPUP.EXE

CPICHEAR.NDF - A sample NDF (Node Definition File) definition for CPICHEAR.CMD. If this is used, then the CPICHEAR.EXE is not needed.

#### PORTABILITY NOTES:

This sample was designed using the REXX CPI-C interface available on an OS/2 system running either Extended Services or Networking Services/2. To migrate the sample to a different REXX CPI-C platform, at least some of the following changes may be required.

- The XCSCST call in CPICTELL.CMD may need to be eliminated or replaced. There may be a need to define some security on the machines running the sample.
- ADDRESS CPICOMM may not how REXX calls CPI-C in another platform. The CPICREXX.EXE is called conditionally to set up the CPICREXX environment. This may be different on another platform.
- The POPUP.EXE may not execute in another platform. See usage notes on how the POPUP.EXE may be replaced.

#### USAGE NOTES:

This package was designed to use on OS/2 using either Extended Services or Networking Services/2 using minimal configuration.

To send a message from one machine to another the following should be true at both machines.

- The OS/2 Communications Manager is started.
- The CPICREXX.EXE has been executed to initialize the CPI-C REXX environment. The CPICREXX.EXE comes with both Extended Services and Networking Services/2. Normally the CPICREXX.EXE is found in the \CMLIB\APPN directory. The CPICTELL.CMD or CPICHEAR.CMD will attempt to run CPICREXX.EXE if it has not been run.

In addition the machine receiving the message should

- have its attach manager started.
- CPICHEAR.EXE, CPICHEAR.CMD, POPUP.EXE are all in the system PATH as specified in the CONFIG.SYS file.
- have a properly-defined TP definition for CPICHEAR. See the sample TP definition in the CPICHEAR.NDF file. Extended Services and Networking Services/2 allow system default information. The DEFINE\_DEFAULTS verb

specified in the xxxxxxxx.NDF file (where xxxxxxxx is the active communication manager configuration. The NDF file is an ASCII-readable file found in the \CMLIB\APPN directory) is used for this purpose. It may not be necessary to add an explicit TP definition for CPICHEAR under the following conditions.

- Default TP directory (system default information) contains the CPICHEAR.EXE. (The DEFINE\_DEFAULTS verb allows the system PATH to be specified as the default TP directory.)
- Conversation security required is NO (system default information - DEFINE\_DEFAULTS default value.)
- Implicit partner LU support is YES (system default information - DEFINE\_DEFAULTS default value.) This is not needed if the partner LU which sends the message is explicitly defined.

POPUP.EXE was designed to help ensure a person using the OS/2 workstation that receives the message, also sees the message. The POPUP.EXE will place the message on the full workstation screen. The message will remain on the screen until the 'ENTER' key is hit. There are other choices to ensure the message is read. You can replace the POPUP.EXE by using the REXX say and pull commands as follows.

```
'popup message from:' plu 'at' time() '-' buffer
```

is replaced by

```
say 'message from:' plu 'at' time() '-' buffer
say
say ' Press enter to end'
pull .
```

and

```
'popup CPICHEAR message fails at' err_at 'rc =' rc 'retc =' retc 'from' plu
```

is replaced by

```
say 'CPICHEAR message fails at' err_at 'rc =' rc 'retc =' retc 'from' plu
say
say ' Press enter to end'
pull .
```

You should then ensure the TP program type is not "background." This is

done with the `DEFAULT_TP_PROGRAM_TYPE` parameter on the `DEFINE_DEFAULTS` verb or the `PROGRAM_TYPE` parameter on the `DEFINE_TP` verb in the configuration node definition file.