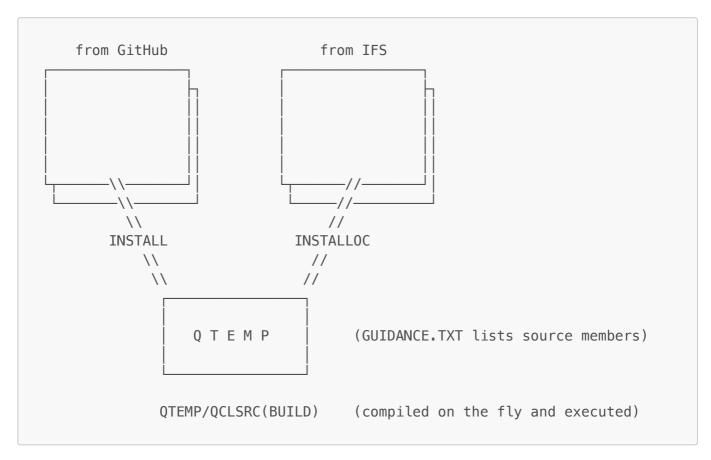
PASERIE (V1R1M0)

Utility for Source-Level Distribution in IBM i

This utility helps you maintain your IBM i source code on GitHub. Once available on a target system, the utility allows you to install your packages in a very simple way, directly accessing your repositories on GitHub or the repositories of other developers that authorized you.

The suite provides a total of three commands:

- For end users of a package:
 - **PASERIE/INSTALL** the main command focusing on the installation phase of an already developed and GitHub-released package.
- For developers:
 - **PASERIE/INSTALLOC** the command used in the development phase to test the installation of a package (planned to be released on GitHub or not) directly from a directory in the IFS.
 - **PASERIE/LIBCLONE** the command used to jump-start the packaging (consistently with PASERIE tools' conventions) from an existing native library.



INSTALLATION

Let's first create an empty SAVEFILE named QGPL/PASERIE:

```
CRTSAVF FILE(QGPL/PASERIE) TEXT('Paserie Save File')
```

Then, from CALL QP2TERM, we verify that **curl** is installed:

```
$
> PATH=/QOpenSys/pkgs/bin:$PATH
    $
> export PATH
    $
> which curl
    /QOpenSys/pkgs/bin/curl
```

Using curl, we download 2 archives:

```
curl -o PaseOssFloating.tar
   https://www.andrearibuoli.it/paserie/PaseOssFloating.tar
```

```
curl -o /QSYS.LIB/QGPL.LIB/PASERIE.FILE
   https://www.andrearibuoli.it/paserie/PASERIE.SAVF
```

From the home path of the user that will be using **PASERIE/INSTALL** we install **PaseOss** folder by untarring *PaseOssFloating* tar file:

```
cd ~
tar xvf PaseOssFloating.tar
```

Now, after exiting from the QP2TERM session, we can perform the RSTLIB for PASERIE:

```
RSTLIB SAVLIB(PASERIE) DEV(*SAVF) SAVF(QGPL/PASERIE)
```

PARAMETERS FOR THE THREE COMMANDS WITH SCREEN SHOTS

| KWD | INSTALL | INSTALLOC | LIBCLONE |
|------------|---------|-----------|----------|
| REPO_OWNER | yes | | |
| REPOSITORY | yes | | |
| YOURGITPAT | yes | | |
| SRCLIB | | | yes |
| LOCALPATH | | yes | yes |
| TGTLIB | yes | yes | |
| | | | |

| KWD | INSTALL | INSTALLOC | LIBCLONE |
|-----------|---------|-----------|----------|
| TGTRLS | yes | yes | |
| DEVOPT | yes | yes | yes |
| LOGOUTPUT | yes | yes | yes |
| VERBOSE | yes | yes | yes |

| PASERIE Installer V1R0 | DM2 (INSTALL) | |
|--|----------------------|--|
| Type choices, press Enter. | | |
| GitHub repository owner REPO_OWNER | | |
| Repository REPOSITORY GitHub personal access token YOURGITPAT | | |
| Target library TGTLIB Target release TGTRLS | *REPOSITORY *CURRENT | |
| Additional Parameters | | |
| Developemnt option DEVOPT Job lob output LOGOUTPUT Verbose VERBOSE | N *PND N | |
| | Bottom | |

| PASERIE Local Installer V1R0M2 (INSTALLOC) | | | |
|--|-------------------------|--|--------|
| Type choices, press Enter. | | | |
| Project directory | | | |
| Target library | *LOCAL_PATH *CURRENT | Character value, Character value, | _ |
| Additional Parameters | | | |
| Developemnt option | N *PND N | Character value Character value, Character value | *SAME |
| | | | Bottom |

| PASERIE Library Clone V1 | R0M2 (LIBCLONE) | | |
|---|------------------|--|--|
| Type choices, press Enter. | | | |
| Source library SRCLIB Target project directory LOCAL_PATH | *SRCLIB | | |
| | | | |
| Additional Parameters | | | |
| Developemnt option DEVOPT Job lob output LOGOUTPUT | <u>N</u> ∗PND | | |
| Verbose VERBOSE | N | | |
| | | | |
| | | | |
| | Bottom | | |

On a system based in Italy the commands will be compiled from localized source files:

```
PASERIE Installatore
                                            V1R1M0 (INSTALL)
Immettere le scelte e premere Invio.
Proprietario repo su GitHub . . > AndreaRibuoli
Repository . . . . . . . . > PASERIE
Token di accesso a GitHub . . . >
                                                  Valore carattere
Caricamento nella libreria . . . *REPOSITORY
                                                   Valore carattere, *REPOSITORY
Rilascio di destinazione . . . .
                                   *CURRENT
                                                  Valore carattere, ∗CURRENT...
                            Parametri aggiuntivi
Opzione di sviluppo . . . . . . Emissione registrazione lavoro
                                                   Valore carattere
                                    *PND
                                                   Valore carattere, *SAME...
                                                   Valore carattere
```

| PASERIE Installa locale V1R1M0 (INSTALLOC) | | | |
|--|----------------|---|-------|
| Immettere le scelte e premere Inv | io. | | |
| Directory del progetto | | | |
| Caricamento nella libreria Rilascio di destinazione | | Valore carattere, Valore carattere, | _ |
| Parametri aggiuntivi | | | |
| Opzione di sviluppo Emissione registrazione lavoro Verboso | N *PND N | Valore carattere Valore carattere, Valore carattere | *SAME |

THE NAME

pastry ==> pâ-tis-se-rie ==> **PASERIE**

HINTS FOR DEVELOPERS

The minimum provision to enable PASERIE/INSTALL handling your "native" IBM i GitHub repository is:

- creating a file named GUIDANCE.TXT in the root of the repository and
- creating a directory named QCLSRC and a QCLSRC/BUILD. CLLE ILE CL source

The installer will use the token passed with **YOURGITPDA** (*GitHub personal access token*) to access GitHub APIs and download GUIDANCE. TXT in memory. The content is a list of member files that will be created in the QTEMP of the batch job. Once all files are transferred the job will attempt the compilation of QTEMP/QCLSRC(BUILD) member file into QTEMP/BUILD *PGM. If successful, it will pass control to your build procedure.

The expected input parameters of a well-behaving QCLSRC/BUILD. CLLE are the following (in this order):

```
DCL VAR(&DEVOPT) TYPE(*CHAR) LEN(1)
DCL VAR(&TGTRLS) TYPE(*CHAR) LEN(10)
DCL VAR(&TGTLIB) TYPE(*CHAR) LEN(10)
```

that default to 'N', '*CURRENT', and '*PACKAGEN' if not set in PASERIE/INSTALL, or PASERIE/INSTALLOC, corresponding parameters.

The PASERIE/LIBCLONE utility generates a directory with all the required PASERIE-related objects. It also introduces a dependency on the TMKMAKE utility (from QUSRTOOL library). I have re-packaged it for a plain installation with PASERIE/INSTALL (please contact me if you need help in installing it: andrea.ribuoli@yahoo.com)

HANDS ON

Let us take confidence with PASERIE/LIBCLONE.

First we create a new native library named **SIMPLE**:

CRTLIB LIB(SIMPLE)

Now we create a source file named QCLSRC with a member named GREETINGS:

```
CRTSRCPF FILE(SIMPLE/QCLSRC)

MBR(GREETINGS)

TEXT('Help me understand PASERIE tools')
```

Let us assign the CLLE SEU-type to our member file:

```
CHGPFM FILE(SIMPLE/QCLSRC) MBR(GREETINGS) SRCTYPE(CLLE)
```

Let us edit the source file:

```
EDTF FILE(SIMPLE/OCLSRC) MBR(GREETINGS)
```

and enter a simple CL source like:

Now we issue the following command:

PASERIE/LIBCLONE SRCLIB(SIMPLE)

We should receive:

```
Selection or command
===>

F3=Exit F4=Prompt
F23=Set initial menu
LIBCLONE_B completed.
```

Now let us run WRKLNK OBJ (SIMPLE) and use option 5 to enter the directory. We should find:

Opt Object link Type Attribute Text
GUIDANCE.TXT STMF
QCLSRC DIR
QMAKSRC DIR

The content of GUIDANCE. TXT will be:

Inside QCLSRC directory you will find two source members:

Opt Object link Type
BUILD.CLLE STMF
GREETINGS.CLLE STMF

And there is also a QMAKSRC with a BUILD member.

Assuming you have a TMKMAKE library with a working TMKMAKE command you will be able to run successfully:

PASERIE/INSTALLOC LOCAL_PATH(SIMPLE)

Now issuing CALL PGM(SIMPLE/GREETINGS) we will get:

Selection or command ===>

F3=Exit F4=Prompt F9=Retrieve F23=Set initial menu Your first use of PASERIE/LIBCLONE