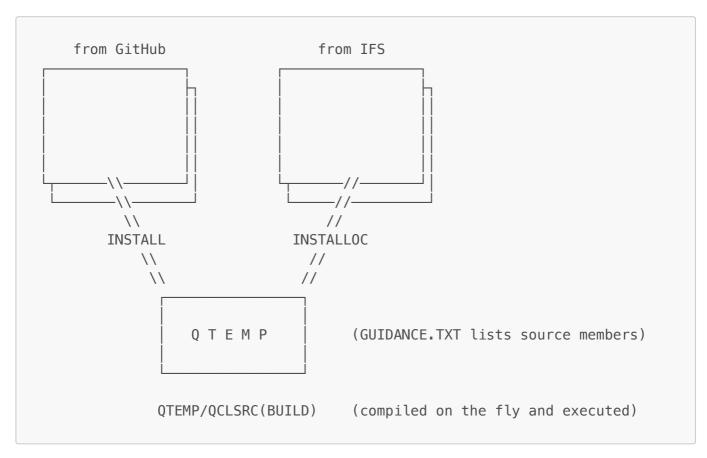
# PASERIE (V1R1M0)

### 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	
TGTRLS	yes	yes	
DEVOPT	yes	yes	yes
LOGOUTPUT	yes	yes	yes
VERBOSE	yes	yes	yes

PASERIE Installer V1R	0M2 (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 Job lob output	N *PND N	Character value Character value, Character value	*SAME	
			Bottom	

PASERIE Library Clone V1R0M2 (LIBCLONE)				
Type choices, press Enter.				
Source library		*SRCLIB		
Additional Parameters				
Developemnt option Job lob output	LOGOUTPUT	N *PND N		
		Bottom		

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

```
PASERIE Installa locale V1R1M0 (INSTALLOC)
Immettere le scelte e premere Invio.
Directory del progetto . . . .
Caricamento nella libreria . . .
                                *LOCAL PATH
                                             Valore carattere, *LOCAL PATH
                                             Valore carattere, *CURRENT...
Rilascio di destinazione . . . .
                                *CURRENT
                         Parametri aggiuntivi
Opzione di sviluppo . . . . . .
                                Ν
                                             Valore carattere
                                *PND
Emissione registrazione lavoro
                                             Valore carattere, *SAME...
                                             Valore carattere
```

### 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 OCLSRC and a OCLSRC/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

## **VERSIONS**

**PASERIE** currently supports **IBM i PASE** from 7.2 to 7.5 but I am working on extending the coverage of previous versions to facilitate reuse of code originally developed on older versions of the operating system.

IBM i PASE	AIX	
7.5	7.2	TL5
7.4		TL2
7.3	7.1	TL4
7.2		TL1
7.1	6.1	TL2
6.1	5.3	TL6
5.4		ML3

- TR Technology Refresh (IBM i)
- **TL** Technology Level (AIX)
- ML Modification Level (AIX)

Note: Starting in 2006, as part of the new AIX 5L Service Strategy, MLs were replaced by TLs