IBM Tivoli Workload Scheduler Object Loader Version 8.2 Interim Fix 001

IBM

Date:	July 02, 2004
Patch:	Patch: 8.2.0-OBL-001
PTF Number:	None
Component:	Object Loader for Tivoli Workload Scheduler Version 8.2
General Description:	Object Loader interim fix 001 for Version 8.2
For Distributed Side:	File Revision synchronizer 6.17

Problems Fixed in 8.2.0-Object Loader - Interim Fix 001

This section lists which APAR fixes are included in this fix pack.

APARs Fixed on the Distributed End

The following APAR fixes are included for the Distributed end of

- APAR IY50869

  Symptoms: Synchonizer datafile time values differ for the same job definition depending on the datafile creation time.

- APAR IY52869

  Symptoms: Object Loader fails to load jobrecs - garbage in TWSZ database.

- APAR IY54544

  Symptoms: synchronizer executable terminates with core when the recovery job is the same job.

APARs Fixed on the z/OS End

The following APAR fixes are included for the z/OS end of Object Loader:

- APAR IY47220

  Symptoms: Job Records longer than 72 characters are truncated when imported on z/OS.

- APAR IY51205

  Symptoms: synchzos should return unique rc when there is an attempt to add over existing jobrec.

- APAR IY51176

  Symptoms: The object loader truncates the job command or script field once it encounters a backslash character in the command line.

Architecture(s)

The synchronizer executable can be installed on the following platforms:

- AIX
- HP-UX

- Solaris Operating Environment
- Windows 2000/NT/XP (intel)
- LINUX (Intel, S390)

Interim Fix Contents

The following is the layout of the Interim Fix deliverable:
- 8.2.0-OBL-001.README (this file)
- AIX
  - synchronizer
- HPUX
  - synchronizer
- SOLARIS
  - synchronizer
- WINDOWS
  - synchronizer.exe
- LINUX_I386
  - synchronizer
- LINUX_S390
  - synchronizer
- z/OS
  - synch.fpk1.xmit
- DOCS
  - ObjectLoaderGuide.pdf

Applying the Interim Fix

The installation of this fix is divided in two steps:
1. Installing the component for Tivoli Workload Scheduler
2. Installing the component for Tivoli Workload Scheduler for z/OS

Installing on Tivoli Workload Scheduler

Perform the following actions:
1. Select the appropriate platform.
2. Download the relative binary into a temporary directory.
3. Create a backup copy of your current *TWShome*\bin\synchronizer binary before installing the interim fix.
4. Do the following, depending on the platform where you are installing:
   - Windows:
     a. Copy the synchronizer.exe executable from the temporary directory to the bin sub-directory of *TWShome* in the fault-tolerant agent working as database gateway (where the Mozart database is installed). *TWShome* is the directory where Tivoli Workload Scheduler was installed.
     b. Change the owner of synchronizer.exe to *TWSuser*. From the *TWShome*\bin directory, run:
        ```
        setown -u TWSuser synchronizer.exe
        ```
   - On Unix:

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a. Copy the `synchronizer` file from the temporary directory to the `bin` sub-directory of *TWShome* in the fault-tolerant agent working as database gateway (where the Mozart database is installed). *TWShome* is the directory where Tivoli Workload Scheduler was installed.

b. Run the following command:

```
chown uid:gid synchronizer
```

where `uid` is the user-id and `gid` is the group-id under which Tivoli Workload Scheduler was installed.

c. Run:

```
chmod 555 synchronizer
```

5. Remove the file downloaded from the temporary directory.

Installing on Tivoli Workload Scheduler for z/OS

Perform the following actions:

1. Open a TSO session with the z/OS system where Tivoli Workload Scheduler for z/OS runs and where you want to download the z/OS components of Objects Loader.

2. On the z/OS system, allocate a sequential dataset with the following characteristics:
where *yourQualifier* is the first qualifier dataset name where you want to install the z/OS Objects

```
                    Allocate New Data Set

 Data Set Name . . . : yourQualifier.SYNCH.EXEC.XMIT


  Management class . . .              (Blank for default management class)
  Storage class . . .                (Blank for default storage class)
  Volume serial . . . . yourVolume    (Blank for system default volume) **
  Device type . . . . .              (Generic unit or device address) **
  Data class . . . .                 (Blank for default data class)
  Space units . . . . . BLOCK         (BLKS, TRKS, CYLS, KB, MB, BYTES
                                       or RECORDS)
  Average record unit                (M, K, or U)
  Primary quantity . .    165        (In above units)
  Secondary quantity      44         (In above units)
  Directory blocks . .    0          (Zero for sequential data set) *
  Record format . . .     FB
  Record length . . .     80
  Block size . . . . .    3120
  . . . . . . . . . . .

  Command ===>
  F1=Help    F3=Exit   F10=Actions F12=Cancel
```

Loader library.

3. From the computer where the Objects Loader CD is mounted, change directory to `CD-Rom:ZOS` and open an FTP session with the z/OS system to run the following commands:
    a. `ftp zOSSystemName`
    b. Insert your TSO userid and password
    c. `bin`
    d. `put synch.fpk1.xmit 'yourQualifier.SYNCH.EXEC.XMIT'`
    e. `quit`

4. When prompted, type the following command to unpack the `xmit` dataset to the target dataset:

```
DSN ('yourQualifier.SYNCH.FPK1.EXEC')
```

All the z/OS components of Objects Loader have now been downloaded into the following members of the *yourQualifier*.SYNCH.EXEC partitioned dataset:

```
EDIT            yourQualifier.SYNCH.EXEC        Row 00001 of 00009
         Name      Prompt   Size  Created      Changed          ID
_____ §LKED              16  2003/01/04  2003/06/04 17:05:23  HOLSON
_____ §SYNCH             33  2002/11/04  2003/06/04 17:05:47  HOLSON
_____ EQQCRYPT
_____ GENDESC            45  2003/02/11  2003/06/04 17:06:17  HOLSON
_____ GENWSID            57  2003/02/10  2003/06/04 17:06:39  HOLSON
_____ PARM                7  2003/02/20  2003/06/04 17:07:00  HOLSON
_____ SYNCHCRT           54  2002/12/09  2003/06/04 17:07:20  HOLSON
_____ SYNCHPIF          762  2002/11/26  2003/06/04 17:07:48  HOLSON
_____ SYNCHZOS         1954  2002/11/04  2003/06/04 17:08:08  HOLSON
**End**
```

5. The configuration steps of the z/OS components will depend on what name convention will be used:
   - If the name of the partitioned data set containing the FPK1 level code is the same as the one of the dataset containing the original (GA) level code, do the following:
      a. Rename the *yourQualifier*.SYNCH.EXEC library containing the GA level code (for example, as *yourQualifier*.SYNCH.EXEC.GA).
      b. Rename the *yourQualifier*.SYNCH.FPK1.EXEC library as *yourQualifier*.SYNCH.EXEC.
      c. Customize the PARM member following the instructions described in the *Setting Up the Objects Loader z/OS Components* section of the Objects Loader User's Guide. Within the same data set, replace the original PARM member with the new one.
   - If the names are not the same, follow the instructions described in the *Setting Up the Objects loader z/OS Components* section of the Objects Loader User's Guide. You can ignore the step related to the compilation of the EQQCRYPT member.

Limitations

The following limitations apply:
- In the Tivoli Workload Scheduler for z/OS definitions, workstation and job names are limited to 4 and 8 characters respectively.
- The Tivoli Job Scheduling Console continues to have the Tivoli Workload Scheduler for z/OS Version 8.1 limited support for database scheduling objects. The following Tivoli Workload Scheduler for z/OS database objects are not supported by the Tivoli Job Scheduling Console:
  - Calendar
  - Periods
  - ETT
  - Operator Instructions
- 3. The following limitations apply for using extended names:
  - The **Extended Job Name** field is not automatically filled by Objects Loader. During the definition phase of a job in a job stream, users must set it manually.
  - Changes to the workstation long name or to the job definition long name will not be automatically updated by Tivoli Workload Scheduler for z/OS or via the Tivoli Job Scheduling Console in the **Extended Job Name** field. They will need to be updated manually.
  - To fit in the 54 characters of the **Extended Job Name** field, if users decide to write a 40-character job definition and a 16-character workstation name, they must truncate some characters.
- 4. Objects Loader does not support DBCS or Multi-byte character sets.