

IFIT – IDAA FUNCTIONS INTERACTIVE TOOL

IDAA Management stand alone in z/OS Environment

AGENDA

- BASIC IDEA & GOALS
- SOFTWARE STRUCTURE
- MAIN FEATURES AND EXAMPLE
- SOFTWARE PACKAGING



BASIC IDEA & GOALS

The basic idea was to have a standalone software tool to handle IDAA in a simple way directly on mainframe.

IFIT (IDAA **F**unctions **I**nteractive **T**ool) enable the execution of main "IDAA" functions in z/OS environment without to use "IBM Data Studio".

By choise, it was decided to allow the functions in batch mode only, providing an "ad hoc" jcl for every user selection.



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BASIC TECHNICAL STRUCTURE

IFIT is an ISPF application that was developed in REXX language.

The main functions are in compiled REXX stored in a load library to protect and hide the processes and algorithms used. REXX runtime alternative library legally shipped together.

Only few rexx sources needed in runtime to start application to enable the user to customize the tool conforming to the own standard.

ISPF Panel library are converted using ISPPREP.



BASIC LIBRARY STRUCTURE

IFIT is structured in following PDSE Library:

- | | |
|----------|---|
| UDDL | – DDL needed to run some function |
| UJCL | – Example jcl to compile REXX sources |
| ULOAD | – REXX compiled sources needed to run application |
| UPANEL | – ISPF Panels in ISPPREP format |
| UPANSRC | – ISPF Panels in text format |
| UREXX | – REXX sources needed to start application |
| UREXXSRC | – REXX program sources of main functions |
| USKEL | – Skeleton needed to build “ad hoc” jcl of main functions |



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MAIN SELECTION PANELS

Start Selection Panel

```
----- (IDFIT) IDAA Function Interactive Tools Menu Selection Panel -----
Option ==> _____

This tool enable the execution of main "IDAA" functions in z/OS enviroment
without to use "IBM Data Studio". By choise, it was decided to allow the
functions in batch mode only, providing an "ad hoc" jcl for every user
selection. Select one option from available :

0 Set Default      Set user parameter and libraries defaults
1 ADD              ADD new Tables in IDAA
2 ALTER            ALTER Tables in IDAA
3 LOAD             LOAD Tables in IDAA
4 ENA/DISABLE      ENABLE/DISABLE Tables in IDAA
5 ARCHIVE           ARCHIVE Tables in IDAA
6 RESTORE           RESTORE Tables from IDAA
7 REMOVE           REMOVE Tables from IDAA
8 LIST             LIST presence of Tables in IDAA
9 STATUS           DISPLAY STATUS od Tables in IDAA
10 EXPLAIN          VERIFY compatibility/Execution of user SQL in IDAA
11 Administrator   GOTO Administration Functions
X Exit            Exit
```

Administrator Function Panel

```
----- (IDFIT) IDAA Function Interactive Tools Menu Selection Panel -----
Option ==> _____

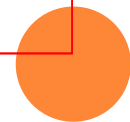
IDFIT Administration Functions reserved to IDAA Administrator

Select one option from available :

A ADD Accelerator  ADD new Accelerator
B REMOVE Accelerator REMOVE Accelerator
C INFO Accelerator INFO status of Accelerator
D LIST Active Task LIST active task on Accelerator
E CANCEL Active Task CANCEL an active task ivi on Accelerator
F COLLECT Statistics COLLECT Statistics on Tables/Query on Accelerator
G REPORT Statistics REPORT last statistics collected
X Exit            Exit
```



Some Function examples
on next slides



ADD TABLE FUNCTION

JCL Built

```
File Edit Edit_Settings Menu Utilities Compilers Test Help
VIEW      CR10229.TSOCR.IFIT.SAVEJCL(TBADD$$$) - 01.00      columns 00001 00080
Command ==>                                         Scroll ==> CSR
***** ***** Top of Data *****
000001 //CR10229A JOB (Xc990000000000),'TLPROC(TSOGIS10)',
000002 //          CLASS=E,MSGCLASS=X,NOTIFY=&SYSUID
000003 //*
=NOTE= ** Use SUBMIT command to execute this job **
000004 //* -----
000005 //* Execute IDAA function (Add Tables)
000006 //* Generated by CR10229 - 11 Nov 2015 10:08:16
000007 //* -----
000008 //S01      EXEC PGM=RXIDTBAD,REGION=0M,
000009 //          PARM='DBEM DBEMACCA'
000010 //* -----
000011 //STEPLIB DD DISP=SHR,DSN=CR10229.TSOCR.IFIT.ULOAD
000012 //SYSEXEC DD DISP=SHR,DSN=CR10229.TSOCR.IFIT.UREXX
000013 //SYSUDUMP DD SYSOUT=*
000014 //SYSTSIN DD DUMMY
000015 //SYSTSPRT DD SYSOUT=*
000016 //* -----
000017 //DDIN DD DATA,DLM=$$
000018 T  SYSADML XC00TBXX
000019 D DBNAME
000020 O TSNAME
000021 $$
```

ISPF Screen

```
----- (IDFIT) IDAA Function Interactive Tools Menu Selection Panel -----
COMMAND ==>

Select max 3 table to ADD in IDAA:

DB2 Subsystem ..... DBEM      Accelerator Name ..... DBEMACCA
Function ..... AD

Table Name
xc00tbxx
Schema/Creator
sysadm1

Distribution Key (Max 4 columns)
DBNAME

Organizing Key (Max 4 columns)
TSNAME

Do you select another Table? NO
```

Execution sysout

```
***** TOP OF DATA *****

**** Starting REXX ? - 10:17:28 ****

* NORMAL - Selezionato sottosistema DBEM
* NORMAL - Selezionato acceleratore DBEMACCA
* INFO - Ignorati Tipo record "p" per ADD Table

Esecuzione corretta della proc SYSPROC.ACCEL_ADD_TABLES

Msg from proc SYSPROC.ACCEL_ADD_TABLES (xml Format):
=====
<?xml version="1.0" encoding="UTF-8" ?>
<dwa:messageOutput xmlns:dwa="http://www.ibm.com/xmlns/prod/dwa/2011" version="1.0">
  <message severity="informational" reason-code="AQT10000r">
    <text>
      The operation was completed successfully.</text>
    <description>
      Success message for the XML MESSAGE output parameter of each stored procedure.</description>
    <action>
    </action>
  </message>
</dwa:messageOutput>

***** End REXX ? - 10:17:31 ****

***** BOTTOM OF DATA *****
```

LOAD TABLE FUNCTION

JCL Built

```
***** Top of Data *****
000001 //CR10229A JOB (XC990000000000), 'TLPROC(TSOGISI0)',
000002 //          CLASS=E,MSGCLASS=X,NOTIFY=&SYSUID
000003 //
000004 //* -----
000005 //* Execute IDAA function (Load Tables)
000006 //* Generated by CR10229 - 11 Nov 2015 10:56:20
000007 //* -----
000008 //S01      EXEC PGM=RXIDTBLD,REGION=0M,
000009 //          PARM='DBEM DBEMACCA PART NONE'
000010 //* -----
000011 //STEPLIB DD DISP=SHR,DSN=CR10229.TSOCL.IFIT.ULOAD
000012 //SYSEXEC DD DISP=SHR,DSN=CR10229.TSOCL.IFIT.UREXX
000013 //SYSUDUMP DD SYSOUT=*
000014 //SYSTSIN DD DUMMY
000015 //SYSTSPRT DD SYSOUT=*
000016 //* -----
000017 //DDIN DD DATA,DLM=$$
000018 T SYSADM1 XC00TBXX
000019 P 1:2
000020 $$
```

ISPF Screen

```
----- (IDFIT) IDAA Function Interactive Tools Menu Selection Panel -----
COMMAND ==>

Select max 3 tables to load in IDAA:

DB2 Subsystem .... DBEM           Accelerator Name ..... DBEMACCA
Function ..... LD
LoadType ..... PART              (FULL = Total; PART = Partitions;
                                  CHANGE = Only partitions with changed data)
LockMode ..... NONE              (NONE = Input Table not locked - default
                                  TABLE = Input Table RO during Load)

Table Name
xc00tbxx
Schema/Creator
sysadm1

Partition (PART - specify list or range a:b separated by comma)
1:2

Do you select another Table? NO
```

Execution sysout

```
***** TOP OF DATA *****

**--- Starting REXX ? - 10:57:19 -----**

* NORMAL - Selezionato sottosistema DBEM
* NORMAL - Selezionato acceleratore DBEMACCA
* NORMAL - Selezionato tipo caricamento PART
* NORMAL - Selezionato tipo Lockmode NONE
* INFO - Ignorati Tipo record "d/o" per LOAD

Esecuzione corretta della proc SYSPROC.ACCEL_LOAD_TABLES

Msg from proc SYSPROC.ACCEL_LOAD_TABLES (Xml Format):

<?xml version="1.0" encoding="UTF-8" ?>
<dwa:messageOutput xmlns:dwa="http://www.ibm.com/xmlns/prod/dwa/2011" version="1.0">
  <message severity="informational" reason-code="AQT20014i">
    <text>
      The following data was transferred to the &quot;SYSADM1&quot;.&quot;XC00TBXX&quot; table: scope: Full table, number of rows: 32, amo
    </text>
    <description>
      This message, which is issued for each transaction of the same type, reports information about the table data that was transferred b
    </description>
  </message>
  <message severity="informational" reason-code="AQT10000i">
    <text>
      The operation was completed successfully.</text>
    <description>
      Success message for the XML MESSAGE output parameter of each stored procedure.</description>
  </message>
</dwa:messageOutput>

**----- End REXX ? - 10:57:22 -----**

***** BOTTOM OF DATA *****
```

LIST TABLE FUNCTION

JCL Built

```
***** Top of Data *****
000001 //CR10229A JOB (XC990000000000), 'TLPROC(TSOGISIO)',
000002 //          CLASS=E,MSGCLASS=X,NOTIFY=&SYSUID
000003 //*
000004 //* -----
000005 //* Execute IDAA function (verify presence of a Table)
000006 //* Generated by CR10229 - 11 Nov 2015 09:18:21
000007 //* -----
000008 //S01 EXEC PGM=RXIDTBLS,REGION=0M,
000009 //      PARM='DBEM DBEMACCA'
000010 //* -----
000011 //STEPLIB DD DISP=SHR,DSN=CR10229.TSOCL.IFIT.ULOAD
000012 //SYSEXEC DD DISP=SHR,DSN=CR10229.TSOCL.IFIT.UREXX
000013 //SYSUDUMP DD SYSOUT=*
000014 //SYSTSIN DD DUMMY
000015 //SYSTSPRT DD SYSOUT=*
000016 //* -----
000017 //DDIN DD DATA,DLM=$$
000018 T SYSADML XC00TBXX
000019 $$
***** Bottom of Data *****
```

ISPF Screen

```
----- (IDFIT) IDAA Function Interactive Tools Menu Selection Panel -----
COMMAND ==>

Select max 3 tables to verify definition in IDAA:

DB2 Subsystem ..... DBEM          Accelerator Name ..... DBEMACCA
Function ..... LS

Table Name
xc00tbxx
Schema/Creator
sysadm1_

Do you select another Table? NO
```

Execution sysout

```
***** TOP OF DATA *****
*--- Starting REXX ? - 09:19:47 -----**
* NORMAL - Selezionato sottosistema DBEM
* NORMAL - Selezionato acceleratore DBEMACCA
* INFO - Usato solo Tipo Record "T" per Remove/List

WARNING durante la call della proc SYSPROC.ACCEL_GET_TABLES_DETAILS
SQLCODE +466 ritornato dalla proc SYSPROC.ACCEL_GET_TABLES_DETAILS - Normal exit

Msg from proc SYSPROC.ACCEL_GET_TABLES_DETAILS (Xml Format):
=====
<?xml version="1.0" encoding="UTF-8" ?>
<dwa:messageOutput xmlns:dwa="http://www.ibm.com/xmlns/prod/dwa/2011" version="1.0">
  <message severity="informational" reason-code="AQT10000I">
    <text>
      </message>
    </dwa:messageOutput>

Tables Details (xml Format)
=====
<?xml version="1.0" encoding="utf-8" standalone="no" ?>
<aqt:tableSetDetails xmlns:aqt="http://www.ibm.com/xmlns/prod/dwa/2011" version="1.0" xmlns:aqtables="http://www.ibm.com/xmlns/prod"
  <table name="XC00TBXX" schema="SYSADML">
    <partInformation type="BY_RANGE">
      <column name="DBNAME"/>
    </partInformation>
    <part dbmsPartNr="1" endingAt="LLZZZZZ" logicalPartNr="1">
      <changeInformation category="NONE" lastLoadTimestamp="2015-11-06T15:23:41.496098z" sharedTablesSpace="false" type="NoChange"/>
    </part>
    <part dbmsPartNr="2" endingAt="ZZZZZZZ" logicalPartNr="2">
      <changeInformation category="NONE" lastLoadTimestamp="2015-11-06T15:23:41.822376z" sharedTablesSpace="false" type="NoChange"/>
    </part>
  </table>
</aqt:tableSetDetails>

*----- End REXX ? - 09:19:48 -----**
```


EXPLAIN TABLE FUNCTION

JCL Built

```
***** Top of Data *****
000001 //CR10229A JOB (XC990000000000), 'TLPROC(TSOGISI0)',
000002 //          CLASS=E,MSGCLASS=X,NOTIFY=$SYSUID
000003 //
000004 ** Use SUBMIT command to execute this job after inserting**
000005 ** user SQL statements where is indicated **
000006 ** Could be need RACF authorization to execute this job **
000007 ** Contact Security Group if necessary **
000008 /*-----
000009 /* Execute IDAA function (EXPLAIN SQL Statement)
000010 /* Generated by CR10229 - 11 Nov 2015 11:04:03
000011 /*-----
000012 //S01 EXEC PGM=IKJEFT01
000013 //SYSTSPRT DD SYSOUT=*,DCB=(RECFM=F,LRECL=200,BLKSIZE=200)
000014 //SYSPRINT DD SYSOUT=*
000015 //SYSUDUMP DD SYSOUT=*
000016 /*
000017 //SYSIN DD DATA,DLN=$$
000018 --
000019 -- DON'T CHANGE SOLID VALUE
000020 SET CURRENT SQLID = 'ACCEL' ;
000021 --
000022 -- CLEAN UP EXPLAIN TABLES
000023 DELETE FROM ACCEL.PLAN_TABLE WHERE QUERYNO = 430;
000024 DELETE FROM ACCEL.DSN_QUERYINFO_TABLE WHERE QUERYNO = 430;
000025 --
000026 -- SET ACCELERATOR OPTION FOR THIS SESSION
000027 SET CURRENT QUERY ACCELERATION=ENABLE;
000028 --
000029 -- EXPLAIN QUERY
000030 EXPLAIN ALL SET QUERYNO = 430 FOR
000031 -----
000032 -- INSERT HERE SQL TO EXPLAIN ON IDAA
000033 -----
000034 ** Insert here user SQL statement before submit job **
000035 SELECT * FROM SYSADM1.XC00TBXX
000036 WITH UR;
000037 -- END USER SQL STATEMENT
000038 -----
000039 --
000040 -- RESET ACCELERATOR FOR THIS SESSION
000041 SET CURRENT QUERY ACCELERATION=ENABLE;
000042 --
000043 -- CHECK IF QUERY IS ELIGIBLE FOR ACCELERATION
000044 --
000045 SELECT QBLOCKNO, ACCESTYPE FROM ACCEL.PLAN_TABLE AS P
000046 WHERE QUERYNO = 430;
000047 --
000048 SELECT QINAME1 AS ACCELERATOR, REASON_CODE, QI_DATA
000049 FROM ACCEL.DSN_QUERYINFO_TABLE
000050 WHERE QUERYNO = 430;
000051 --
000052 $$
***** Bottom of Data *****
```

ISPF Screen

```
----- (IDFIT) IDAA Function Interactive Tools Menu Selection Panel -----
COMMAND ==>

Set options for EXPLAIN Function in IDAA. Will be created a jcl where
put user SQL to make an EXPLAIN.

DB2 Subsystem ..... DBEM          Accelerator Name ..... DBEMACCA
Function ..... EX

Runtime option..... ENABLE (ENABLE = Verify SQL to be run in IDAA
ALL = Exec SQL in IDAA)
```

Execution sysout

```
-- CHECK IF QUERY IS ELIGIBLE FOR ACCELERATION
--
***INPUT STATEMENT:
SELECT QBLOCKNO, ACCESTYPE FROM ACCEL.PLAN_TABLE AS P
WHERE QUERYNO = 430;

+-----+
| QBLOCKNO | ACCESTYPE |
+-----+
| 1 | R |
+-----+

SUCCESSFUL RETRIEVAL OF 1 ROW(S)
PAGE 1
--
***INPUT STATEMENT:
SELECT QINAME1 AS ACCELERATOR, REASON_CODE, QI_DATA
FROM ACCEL.DSN_QUERYINFO_TABLE
WHERE QUERYNO = 430;

+-----+
| ACCELERATOR |
+-----+
| 1 |
+-----+

+-----+
| REASON_CODE |
+-----+
| 1 | 3 |
+-----+

PAGE 3
+-----+
| QI_DATA |
+-----+
| 1 | 300 The query is a DB2 short running query or offloading is not advantageous. |
+-----+

SUCCESSFUL RETRIEVAL OF 1 ROW(S)
PAGE 1
***** BOTTOM OF DATA *****
```

INFO ADMIN FUNCTION

JCL Built

```
***** Top of Data *****
000001 //CR10229A JOB (Xc99000000000), 'TLPROC(TSOGISI0)',
000002 //          CLASS=E,MSGCLASS=X,NOTIFY=&SYSUID
000003 //**
000004 //** -----
000005 //** IDAA Administrative Function (INFO Status of Accelerator)
000006 //** Generated by CR10229 - 11 Nov 2015 11:17:29
000007 //** -----
000008 //S01      EXEC PGM=RXIDACAI,REGION=0M,
000009 //          PARM='DBEM DBEMACCA'
000010 //** -----
000011 //STEPLIB DD DISP=SHR,DSN=CR10229.TSOCR.IFIT.ULOAD
000012 //SYSEXEC DD DISP=SHR,DSN=CR10229.TSOCR.IFIT.UREXX
000013 //SYSUDUMP DD SYSOUT=*
000014 //SYSTSIN DD DUMMY
000015 //SYSPRINT DD SYSOUT=*
000016 //** -----
***** Bottom of Data *****
```

ISPF Screen

```
----- (IDFIT) IDAA Function Interactive Tools Menu Selection Panel -----
COMMAND ==> _____

Specify parameters for Accelerator Informations

DB2 Subsystem ..... DBEM          Accelerator Name ..... DBEMACCA
Function ..... AI
```



Execution sysout

```
***** TOP OF DATA *****

**--- Starting REXX ? - 11:19:09 -----**

* NORMAL - Selezionato sottosistema DBEM
* NORMAL - Selezionato acceleratore DBEMACCA

Esecuzione corretta della proc SYSPROC.ACCEL_CONTROL_ACCELERATOR

Status of Accelerator DBEMACCA (Xml Format):

<?xml version="1.0" encoding="UTF-8" ?>
<dwa:controlResult xmlns:dwa="http://www.ibm.com/xmlns/prod/dwa/2011" version="1.4">
  <acceleratorInfo state="online" activeTraceProfile="DEFAULT" activeVersion="4.1.5.201508181051" activeNetezzaVersion="7.2.0.3-P2 B
="2015-11-11T10:19:15.891360Z" activeHPFVersion="5.3.5.0" activeFDTVersion="4.1.2.0" activeAccessServerVersion="11.3.3.4289 (2015042
  <acceleratorSetting name="ENABLE_FACTREL_PLANNER" value="true" />
  <acceleratorSetting name="FACTREL_SIZE_THRESHOLD" value="100000000" />
  <acceleratorSetting name="INLIST_THRESHOLD" value="20" />
  <acceleratorSetting name="MAX_NUM_CONCURRENT_RUNNING_QUERIES" value="100" />
</acceleratorInfo>
</dwa:controlResult>

Msg from proc SYSPROC.ACCEL_CONTROL_ACCELERATOR (Xml Format):

<?xml version="1.0" encoding="UTF-8" ?>
<dwa:messageOutput xmlns:dwa="http://www.ibm.com/xmlns/prod/dwa/2011" version="1.0">
  <message severity="informational" reason-code="AQT100002">
    <text>
      The operation was completed successfully.</text>
    <description>
      Success message for the XML MESSAGE output parameter of each stored procedure.</description>
    <action>
    </action>
  </message>
</dwa:messageOutput>

**----- End REXX ? - 11:19:10 -----**
```



TASK ADMIN FUNCTION

JCL Built

```
***** Top of Data *****
000001 //CR10229A JOB (XC9900000000), 'TLPROC(TSOGISI0)',
000002 //          CLASS=E,MSGCLASS=X,NOTIFY=&SYSUID
000003 //
000004 //
000005 //***** Use SUBMIT command to execute this job ****
000006 //***** IDAA Administrative Function (LIST TASK on Accelerator)
000007 //***** Generated by CR10229 - 11 Nov 2015 11:21:00
000008 //*****
000009 //S01      EXEC PGM=RXIDACAL,REGION=0M,
000010 //          PARM='DBEM DBEMACCA'
000011 //*****
000012 //STEPLIB DD DISP=SHR,DSN=CR10229.TSOCR.IFIT.ULOAD
000013 //SYSEXEC DD DISP=SHR,DSN=CR10229.TSOCR.IFIT.UREXX
000014 //SYSUDUMP DD SYSOUT=*
000015 //SYSTSIN DD DUMMY
000016 //SYSPRT DD SYSOUT=*
000017 //*****
```

ISPF Screen

```
----- (IDFIT) IDAA Function Interactive Tools Menu Selection Panel -----
COMMAND ==> _____

Specify parameters to obtain Active Task List in Accelerator

DB2 subsystem ..... DBEM          Accelerator Name ..... DBEMACCA
Function ..... AL
```

Execution sysout

```
***** TOP OF DATA *****
**--- Starting REXX ? - 11:22:29 -----**

* NORMAL - Selezionato sottosistema DBEM
* NORMAL - Selezionato acceleratore DBEMACCA

Esecuzione corretta della proc SYSPROC.ACCEL_CONTROL_ACCELERATOR

Active Task on Accelerator DBEMACCA (xml Format):

=====
<?xml version="1.0" encoding="UTF-8" ?>
<taskListing:controlResult xmlns:taskListing="http://www.ibm.com/xmlns/prod/dwa/2011" version="1.0">
  <acceleratorTasks>
    <task id="841611" type="List accelerator tasks" progressMessage="collecting current task list" ageInSeconds="0" user="CR10229" />
  </acceleratorTasks>
</taskListing:controlResult>

Msg from proc SYSPROC.ACCEL_CONTROL_ACCELERATOR (xml Format):

=====
<?xml version="1.0" encoding="UTF-8" ?>
<dwa:messageOutput xmlns:dwa="http://www.ibm.com/xmlns/prod/dwa/2011" version="1.0">
  <message severity="informational" reason-code="AQT100001">
    <text>
      The operation was completed successfully.</text>
    <description>
      Success message for the XML MESSAGE output parameter of each stored procedure.</description>
    <action>
    </action>
  </message>
</dwa:messageOutput>

**----- End REXX ? - 11:22:30 -----**
***** BOTTOM OF DATA *****
```


REPORT ADMIN FUNCTION

JCL Built

```
***** Top of Data *****
000001 //CR10229A JOB (XC990000000000),'TLPROC(TSOGISI0)',
000002 //          CLASS=E,MSGCLASS=X,NOTIFY=&SYSUID
000003 //
000004 // *
000005 // * IDAA Administrative Function (REPORTS Accelerator Statistics)
000006 // * Generated by CR10229 - 11 Nov 2015 11:24:47
000007 // *
000008 //S01      EXEC PGM=RXSTAREP,REGION=0M,
000009 //          PARM='DBEM HINFO'
000010 // *
000011 //STEPLIB DD DISP=SHR,DSN=CR10229.TSOCR.IFIT.ULOAD
000012 //SYSEXEC DD DISP=SHR,DSN=CR10229.TSOCR.IFIT.UREXX
000013 //SYSUDUMP DD SYSOUT=*
000014 //SYSTSIN DD DUMMY
000015 //SYSTSPRT DD SYSOUT=*
000016 //DDOUT   DD DSN=CR10229.IDAASAT.DBEM.HINFO.D15315.T112447,
000017 //          DISP=(,CATLG),UNIT=SYSDA,
000018 //          SPACE=(CYL,(50,50),RLSE),
000019 //          DCB=(RECFM=FB,LRECL=1024,BLKSIZE=0)
000020 // *
000021 //S02      EXEC PGM=RXSTAREP,REGION=0M,
000022 //          PARM='DBEM HQUERY 7'
000023 // *
000024 //STEPLIB DD DISP=SHR,DSN=CR10229.TSOCR.IFIT.ULOAD
000025 //SYSEXEC DD DISP=SHR,DSN=CR10229.TSOCR.IFIT.UREXX
000026 //SYSUDUMP DD SYSOUT=*
000027 //SYSTSIN DD DUMMY
000028 //SYSTSPRT DD SYSOUT=*
000029 //DDOUT   DD DSN=CR10229.IDAASAT.DBEM.HQUERY.D15315.T112447,
000030 //          DISP=(,CATLG),UNIT=SYSDA,
000031 //          SPACE=(CYL,(50,50),RLSE),
000032 //          DCB=(RECFM=FB,LRECL=1024,BLKSIZE=0)
000033 // *
```

ISPF Screen

```
----- (IDFIT) IDAA Function Interactive Tools Menu Selection Panel -----
COMMAND ==> _____

Specify parameters to obtain Statistic Reports

DB2 Subsystem ..... DBEM           Accelerator Name ..... DBEMACCA
Function ..... RP

Qualifier for Output Report Files:
CR10229.IDAASAT.DBEM _____

Extraction Period in days (0 = ALL): 7 _____

PF3 - Return
```

Output Report Files
On next slide

REPORT ADMIN FUNCTION

Output Report Files

Table Report

Accelerator	Extracted_time	Schema	Name	LoadStatus	AccelerationStatus	IntegrityStatus	ReplicationStatus	ArchiveStatus
DBEMACCA	2015-11-08-21.36.12.061097	CR00515	AH00TB04	Loaded	true	unimpaired	false	false
DBEMACCA	2015-11-08-21.36.12.061097	CR00515	CALENDAR	Loaded	true	unimpaired	false	false
DBEMACCA	2015-11-08-21.36.12.061097	CR00515	CICS_SUPPLIED	Loaded	true	unimpaired	false	false
DBEMACCA	2015-11-08-21.36.12.061097	CR00515	EPQ101_1_PK_D1507_V001	Loaded	true	unimpaired	false	true
DBEMACCA	2015-11-08-21.36.12.061097	CR00515	EPQ101_1_PK_D1507_V002	Loaded	true	unimpaired	false	true
DBEMACCA	2015-11-08-21.36.12.061097	CR00515	EPQ101_1_PK_D1507_V003					
DBEMACCA	2015-11-08-21.36.12.061097	CR00515	EPQ101_1_PK_D1507_V004					
DBEMACCA	2015-11-08-21.36.12.061097	CR00515	EPQ101_1_PK_D1508_V001					
DBEMACCA	2015-11-08-21.36.12.061097	CR00515	EPQ101_1_PK_D1508_V002					
DBEMACCA	2015-11-08-21.36.12.061097	CR00515	EPQ101_1_PK_D1508_V003					
DBEMACCA	2015-11-08-21.36.12.061097	CR00515	EPQ101_1_PK_D1508_V004					
DBEMACCA	2015-11-08-21.36.12.061097	CR00515	EPQ101_1_PK_D1509_V001					
DBEMACCA	2015-11-08-21.36.12.061097	CR00515	EPQ101_1_PK_D1509_V002					
DBEMACCA	2015-11-08-21.36.12.061097	CR00515	EPQ101_1_PK_D1509_V003					
DBEMACCA	2015-11-08-21.36.12.061097	CR00515	EPQ101_1_PK_D1509_V004					
DBEMACCA	2015-11-08-21.36.12.061097	CR00515	EPQ101_1_PK_D1510_V001					
DBEMACCA	2015-11-08-21.36.12.061097	CR00515	EPQ101_1_PK_D1510_V002					
DBEMACCA	2015-11-08-21.36.12.061097	CR00515	EPQ101_1_PK_D1510_V003					
DBEMACCA	2015-11-08-21.36.12.061097	CR00515	EPQ101_1_PK_D1510_V004					
				UsedDiskSpaceinMB	RowCount	Skew	OrganizedPercent	LastLoadtimestamp
				15	495	0.0	0.0	2015-11-08-14.37.27.015709+00:00
				14	268	0.0	0.0	2015-10-23-17.11.07.350505+00:00
				12	179	0.0	0.0	2015-11-06-15.04.47.300479+00:00
				0	0	0.0	0.0	2015-07-22-10.26.22.267833+00:00
				0	0	0.0	0.0	2015-07-22-10.26.22.267854+00:00
				0	0	0.0	0.0	2015-07-22-10.26.22.267859+00:00
				0	0	0.0	0.0	2015-07-22-10.26.22.267863+00:00
				0	0	0.0	0.0	2015-08-24-09.41.26.881093+00:00
				0	0	0.0	0.0	2015-07-30-06.44.41.371055+00:00
				0	0	0.0	0.0	2015-08-24-10.35.43.606357+00:00
				0	0	0.0	0.0	2015-08-24-10.49.14.948909+00:00
				0	0	0.0	0.0	2015-08-25-21.00.21.566486+00:00
				0	0	0.0	0.0	2015-08-25-21.00.18.251275+00:00
				0	0	0.0	0.0	2015-08-25-21.00.23.222193+00:00
				0	0	0.0	0.0	2015-08-25-21.00.19.875632+00:00
				0	0	0.0	0.0	2015-10-02-07.02.03.325783+00:00
				1126	15000000	0.027	0.0	2015-10-07-16.18.41.511157+00:00

Query Report

PlanID	user	ProductID	Clientuser	workstation	Application	LocationName	ConnName	ConnType	CorrID	AuthID	PlanName	Accounting	SubSystemID	State
15864	CRIDA00	SQL10053	dsadm	ds02ap1x.ced.it	SMF_Data_Moving:stat	ITCDNDBEM	SERVER	DIST	osh	CRIDA00	DISTSERV	DS Par9111a_H24_unix	DBEM	DONE
15863	CRIDA00	SQL10053	dsadm	ds02ap1x.ced.it	SMF_Data_Moving:stat	ITCDNDBEM	SERVER	DIST	osh	CRIDA00	DISTSERV	DS Par9111a_H24_unix	DBEM	DONE
15862	CRIDA00	SQL10053	dsadm	ds02ap1x.ced.it	SMF_Data_Moving:1007	ITCDNDBEM	SERVER	DIST	osh	CRIDA00	DISTSERV	DS Par91e_Tabella_R110	DBEM	DONE
15861	CRIDA00	SQL10053	dsadm	ds02ap1x.ced.it	SMF_Data_Moving:1007	ITCDNDBEM	SERVER	DIST	osh	CRIDA00	DISTSERV	DS Par91e_Tabella_R110	DBEM	DONE
15860	CRIDA00	SQL10053	dsadm	ds02ap1x.ced.it	SMF_Data_Moving:1006	ITCDNDBEM	SERVER	DIST	osh	CRIDA00	DISTSERV	DS Par91e_Tabella_R110	DBEM	DONE
15859	CRIDA00	SQL10053	dsadm	ds02ap1x.ced.it	SMF_Data_Moving:1007	ITCDNDBEM	SERVER	DIST	osh	CRIDA00	DISTSERV	DS Par91e_Tabella_logATM	DBEM	DONE
15858	CRIDA00	SQL10053	dsadm	ds02ap1x.ced.it	SMF_Data_Moving:1007	ITCDNDBEM	SERVER	DIST	osh	CRIDA00	DISTSERV	DS Par91e_Tabella_logATM	DBEM	DONE
15857	CRIDA00	SQL10053												
15856	CRIDA00	SQL10053												
15855	CRIDA00	SQL10053												
15854	CRIDA00	SQL10053												
15853	CRIDA00	SQL10053												
15852	CRIDA00	SQL10053												
15851	CRIDA00	SQL10053												
15850	CRIDA00	SQL10053												
15849	CRIDA00	SQL10053												
15848	CRIDA00	SQL10053												
				SubmitTimestamp	waitTimeSec	FetchTimeSec	CpuTimeSec	ElapsedTimeSec	Priority	ResultRows		ResultBytes	ErrorDescription	
				2015-11-08-18.59.10.552696+00:00	0	0	0	4	IMPORTANCE 3	2624		116067		
				2015-11-08-17.59.09.001876+00:00	0	0	0	4	IMPORTANCE 3	2624		116067		
				2015-11-08-17.02.17.121553+00:00	0	0	51	244	IMPORTANCE 3	1844		125387		
				2015-11-08-17.02.17.121412+00:00	0	0	27	154	IMPORTANCE 3	179		15752		
				Task Sqltext										
				663161 SELECT * FROM (select 'CRO0515.H24R030_4_STEP_V001' as tabella, PARTIZIONE, count(*) as record from CRO0515.H24R030_4_STEP_V001										
				660635 SELECT * FROM (select 'CRO0515.H24R030_4_STEP_V001' as tabella, PARTIZIONE, count(*) as record from CRO0515.H24R030_4_STEP_V001										
				658223 SELECT TABELLA, PARTIZIONE, GIORNO, JOBFINITI, ROWNUM from (SELECT 'EPQ110_1_TRXACC' AS TABELLA, 99999 as PARTIZ										
				658222 SELECT GIORNO, GSY7,BSY2,ZSY5,SIES,SIGE, MVSA, IP04, JSY5, ESYA, ICT1, MVSB, ASDN, ASSV, TOTALE - (GSY7+BSY2+ZSY5+SIES+SIGE+SIG										
				658122 SELECT partizione, subستر(STOP_005,1,10) STARTDAY, subستر(STOP_006,1,10) STOPDAY count(*) STARTED from CRO05										
				658110 SELECT DATA, (MAX (TTTT_C)) AS TTTT_MAX_ID, SUM (TTTT_N) AS TTTT_REC, (MAX (AB103440_C)) AS AB103440_MAX_ID, SUM (A										
				658110 SELECT FROM (SELECT 'PARTIZIONE' AS TABELLA, PARTIZIONE, count_big(*) as RIGHE from CRO0515.H24R030_4_STEP_V001										
				658098 SELECT * FROM (select 'CRO0515.H24R030_4_STEP_V001' as tabella, PARTIZIONE, count(*) as record from CRO0515.H24R030_4_STEP_V001										
				658050 SELECT * FROM (select 'CRO0515.H24R030_4_STEP_V001' as tabella, PARTIZIONE, count(*) as record from CRO0515.H24R030_4_STEP_V001										
				655524 SELECT * FROM (select 'CRO0515.H24R030_4_STEP_V001' as tabella, PARTIZIONE, count(*) as record from CRO0515.H24R030_4_STEP_V001										
				653046 SELECT DATA, CAST ((SUM (TTTT_C)/3600) AS DECIMAL(9,2)) AS TTTT_HH_CPU, CAST ((SUM (TTTT_C)/3600) AS DECIMAL(11,2)) AS HH										
				653040 SELECT * FROM (SELECT TABELLA, PARTIZIONE, count_big(*) AS RIGHE from CRO0515.EPQ101_PK_GROUP BY TABELLA, PARTIZIONE UNION										
				652986 SELECT * FROM (select 'CRO0515.H24R030_4_STEP_V001' as tabella, PARTIZIONE, count(*) as record from CRO0515.H24R030_4_STEP_V001										
				652061 select 'sys:' SYSTEM 'Firstupdate:' min(INITIALTIME 'sys:' SYSTEM 'BSY2, ZSY5, SIES, GSY7, GSY3, ESY										
				652001 SELECT FROM (SELECT 'GIORNO, 'A) JOBFINITI from CRO0515.H24R030_4_STEP_V001										
				651995 SELECT TABELLA, VERSIONE, PARTIZIONE, GIORNO, JOBFINITI from CRO0515.epv30_5_jobterm as TABELLA, TUTTE 'A) JOBFINITI										
				651997 SELECT tabella, VERSIONE, PARTIZIONE, GIORNO, JOBFINITI as QUANTI REC14 from (SELECT 'CRO0515.EPV14_DSACTY' as TABELLA, VE										

AGENDA

- BASIC IDEA & GOALS
- SOFTWARE STRUCTURE
- MAIN FEATURES AND EXAMPLE
- SOFTWARE PACKAGING



SOFTWARE DISTRIBUTION

IFIT can be distributed in xmit file format in two different distribution form for vendor and end user containing a PDSE with needed library in xmit format too.

IFIT.LIBRARY.VENDOR

UDDL
UJCL
ULOAD
UPANEL
UPANSRC
UREXX
UREXXSRC
USKEL

IFIT.LIBRARY.USER

UDDL
ULOAD
UPANEL
UREXX
USKEL



SIMPLE INSTALLATION PROCEDURE

IFIT has a simple and friendly installation procedure that doesn't require depth technical skill.

CONTENTS

- 1.0 ABOUT THIS README FILE
- 1.1 Who should read this readme file
- 2.0 INSTALLING THE LIBRARY PACKAGE
- 3.0 REQUIREMENTS

1.0 ABOUT THIS README FILE

This file contains the latest information about installing the IFIT - IDAA Function Interactive Tools Version 1.0.0.

1.1 Who should read this readme file

Users who want to install the IFIT - IDAA Function under z/OS and/or TSO/E.

2.0 INSTALLING THE LIBRARY PACKAGE

IFIT is a Library package shipped in XMIT Library file format.

The following steps are required to install IFIT Library:

- (1.) Download and unzip IFIT.ZIP in a temporary directory on a PC. It contains the following files:
 - * IFIT.LIBRARY.VENDOR (XMIT format of installation Library)
 - * This README file with the latest installation information
- (2.) Transfer in z/OS server IFIT.LIBRARY.VENDOR in binary mode in a preallocated sequential (RECFM=FB LRECL=80 BLKSIZE=3120) using FTP or other transfer program (IND\$FILE, etc.)

- (3.) In z/OS TSO session restore PDSE IFIT.LIBRARY.VENDOR using command:

- * RECEIVE INDA(IFIT.LIBRARY.VENDOR)

this command restore the PDSE IFIL Installation Library

- (4.) PDSE IFIT.LIBRARY.VENDOR.USER contains the members:

- * UDDL - DDL to activate some functions
 - * ULOAD - LOAD need to execute applications
 - * UPANEL - Panels
 - * UREXX - REXX procedures
 - * USKEL - Skeleton

all members are in XMIT format. Restore associated PDSE Library using RECEIVE command above as well.

- (5.) Define objects in UDDL using SPUFI in DB2 subsystem connected to IDAA.
- (6.) Customize \$IDFITLS to your own library prefix and put it in a SYSEXEC library concatenation.
- (7.) Exec \$IDFITLS and enjoy for application.

3.0 REQUIREMENTS

IFIT use DSNREXX stub for SQL and DSNTIAR for SQL error routine. Both must need available in user steplib or linklist concatenation.