Quick introduction
Life Cycle and Build Support

Relative to Release 110

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Content

1 Introduction

Welcome to the Sure ‘change & control’ system demonstration. We are pleased that you have chosen to investigate how Sure can assist you in your change control needs.

Originally Sure was designed to keep track of changes and to prevent the loss of changes when modifying source modules. The first version was released in 1983 and was specifically tailored for Unisys CP/NX systems. From that time, Sure has proven to be a powerful assistant for project leaders, programmers, change controllers, security managers, auditors, and even operators.

In a very real sense hundreds of data processing professionals in dozens of companies have contributed to the development of Sure by telling us what they needed to perform their duties. The diversity of Sure’s existing users assures that the system provides you with immediate and tangible benefits.

As in many other areas of endeavour, a few moments spent initially on understanding the overall picture of the Sure system will be more than repaid when you begin to use Sure in your own environment. This demonstration is designed to guide you from a point where you lack any specific knowledge of Sure to a point where you have seen some of the things Sure can accomplish for you.

Some paragraphs in this document are marked with character 🔔 or ✷.
Character 🔔 means that this paragraph contains important information.
Character ✷ means that one or more actions have to be performed.

Please take a few moments to look over the following sections of the Sure demonstration. We appreciate your interest in Sure and hope that by the time you complete this demonstration you will share our enthusiasm for Sure. If we can be of service to you please contact us as follows:

ITSforSURE B.V.
email: sure@itsforsure.nl

2 Configuration

The Sure evaluation repository is created as follows:

Family
All parts of the evaluation will be done on family IDRD2.
The repository is placed on this family
All usercodes that are used during the evaluation will work on this family and have the following family specification: FAMILY DISK = IDRD2 OTHERWISE DISK.

Environments
The repository is subdivided into the following environments:
DEVELOP
ACCEPTANCE
PRODUCTION

Usercodes
The following usercodes are used during the evaluation:

DM1	The repository-usercode: database (DM1)INFDB ON IDRD2
DM1_DEV	The work usercode for environment DEVELOP
DM1_ACC	The work usercode for environment ACCEPTANCE
DM1_PRO	The work usercode for environment PRODUCTION
DM1_DEV_BATCH	The Sure batch usercode for environment DEVELOP
DM1_ACC_BATCH	The Sure batch usercode for environment ACCEPTANCE
DM1_PRO_BATCH	The Sure batch usercode for environment PRODUCTION
EVALUATE1 / PASS	An evaluation usercode
EVALUATE2 / PASS	An evaluation usercode
EVALUATE3 / PASS	An evaluation usercode
EVALUATE4 / PASS	An evaluation usercode
EVALUATE5 / PASS	An evaluation usercode

Evaluation usercodes
The members of the evaluation team must log on with one of the evaluation usercodes. Each team member must choose his own private usercode which identifies himself uniquely in Sure. In this case it is possible to do the evaluation with 5 team members simultaneously.

Work usercodes
A work usercode identifies the disk location where all programmer activities are done (similar to the programmers work location in Cande).
For this evaluation we configured Sure in such a way that copy-files and object-files are placed under the work usercode on disk.
Temporary source files (that are in maintenance) are placed under the work usercode.

In this case the work usercode is NOT equal to the global directory '□'. This means that all programmers will be connected to the same work location:
for environment DEVELOP : usercode (DM1_DEV) ON IDRD2
for environment ACCEPTANCE: usercode (DM1_ACC) ON IDRD2
for environment PRODUCTION: usercode (DM1_PRO) ON IDRD2
Notice again that that each evaluation member is logged on to Sure with a private usercode (EVALUATE1 through 5), but all members will work under the same usercode on disk (DM1_DEV).

Batch usercodes
File that are modified and checked-in in Sure will be compiled by the Sure batch. Other Sure batch functions are:

- Copy the compiled objects to the correct object-locations.
- Match the modified saved files with their previous versions.
- Examine (scan) the modified files for references to other files and programs.

Each Sure environment has a corresponding Sure-batch usercode where the batch runs.

Authorisations
All usercode are allowed to do all Sure functions, except:

- function ODT
- change options
- change securities

Usercode DM1 (the installation usercode) has no authorisation limitations.

Task groups
We predefined the following task groups:

task group	reason	priority
DEV	Normal maintenance in environment DEVELOP	LOW
ACC	Quick fixes in environment ACCEPTANCE	HIGH
PROD	Urgent quick fixes in environment PRODUCTION	HIGH

3 Task registration

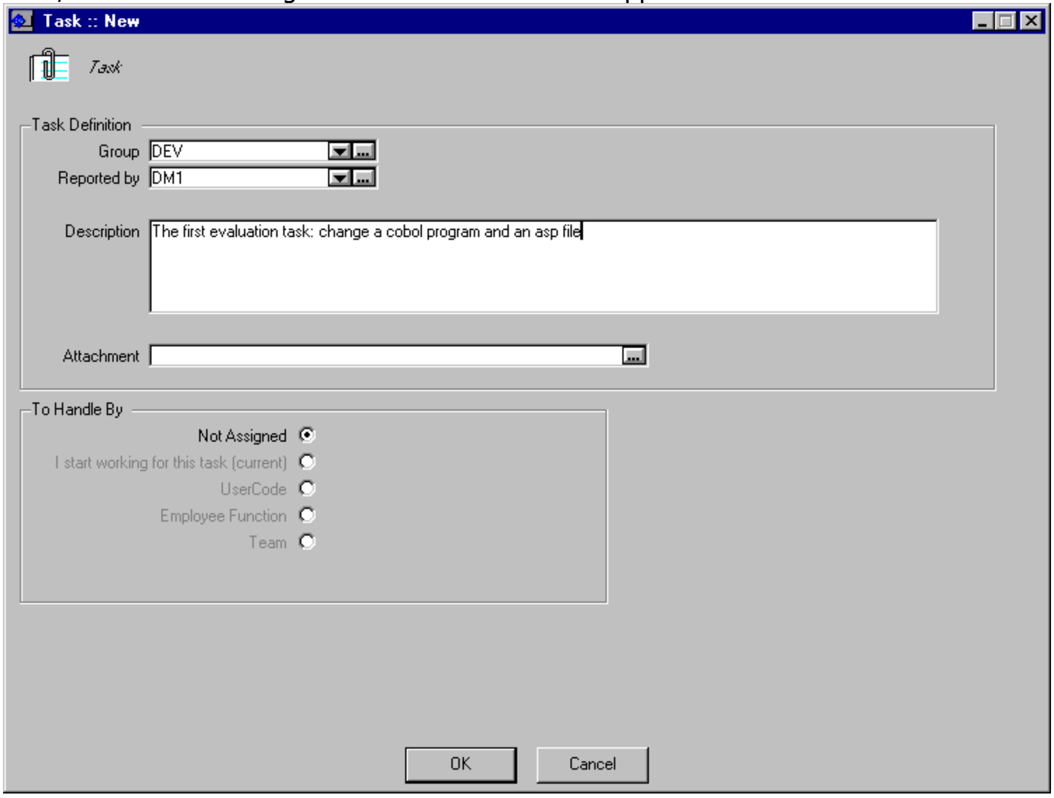
The Sure manual is online available via button 'Help' in the menu bar.

Please read chapters 36.1 through 36.4 to obtain a first idea about tasks.

Each adaptation to software will be linked to a task. Therefore a task must be added and made current before a programmer can start working.

3.1 Task Registration via SureForWindows

- Log on with your personal usercode.
- Click on Edit (in the menu bar)
- Click on New/Task. The following task definition screen will appear:



Task Definition

Group: DEV

Reported by: DM1

Description: The first evaluation task: change a cobol program and an asp file

Attachment:

To Handle By

- Not Assigned ●
- I start working for this task (current) ○
- UserCode ○
- Employee Function ○
- Team ○

- Add a new task:

  It is possible to define a task via an existing task-group, or to define a task via a project/task-type combination. In this case we choose to define the task via a task-group:

  - Task Group = DEV
  - Description = The first task

Notice the name of the newly entered task: DEV-00nn. If a task is entered via a task-group then the new task name is determined according to the formula <task-group>'_'<4 digit number>.
The task has task-type DEVELOPMENT and it belongs to project DEMO.
The project and task-type of the task are inherited from the task-group. It is possible to override the default task-group attributes by entering a specific value in the appropriate field when a new task is added.

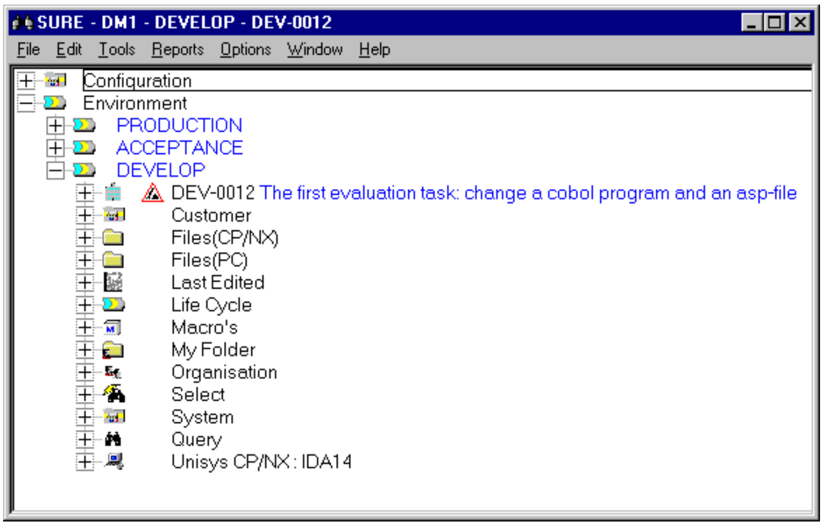
Notice the status of the newly entered task: ENTERED.

Notice the attributes 'Priority', 'Effort' and 'Environment': These attributes are inherited from the task type. If the task type is changed, then these inherited attributes will change too (if necessary).

Read chapter 36.5 through 36.6 of the Sure manual for detailed information about the fields on the task definition screen.

- We want to start working on this task. This is only possible if the task is defined as ‘my current work task’. There are several ways to do this:
  1. Click on button ‘Current’ on the task-definition screen.
  2. Open browse-list ‘Team Tasks’/’ToAssign’ and click with the right mouse button on the task that you want to assign. Choose ‘assign’ from the speed-menu followed by ‘current’ from the speed menu.
  3. Open browse-list ‘My-Tasks’/’ToDo’, and click with the right mouse button on the task that you want to select. Choose ‘current’ from the speed-menu.
  4. Enter the new task directly with option ‘I start working on this task (current)’

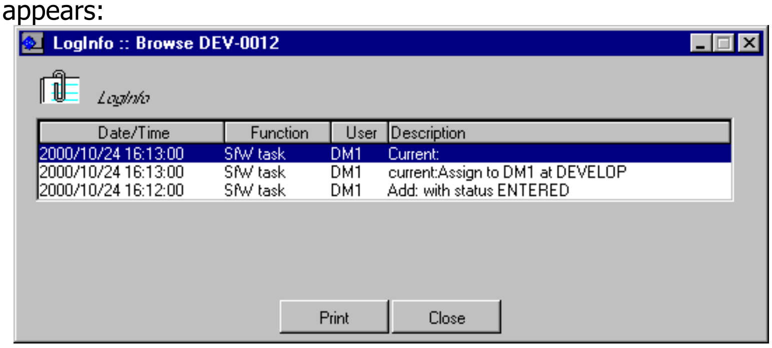
  The current task is now displayed in the title bar of the SureForWindows screen, and as a folder in the DEVELOP environment:



SURE - DM1 - DEVELOP - DEV-0012

```
+ Configuration
- Environment
    + PRODUCTION
    + ACCEPTANCE
    - DEVELOP
        + DEV-0012 The first evaluation task: change a cobol program and an asp-file
        + Customer
        + Files(CP/NX)
        + Files(PC)
        + Last Edited
        + Life Cycle
        + Macro's
        + My Folder
        + Organisation
        + Select
        + System
        + Query
        + Unisys CP/NX : IDA14
```

- Right-click on the name of your current task and choose ‘log’ from the speed-menu. The following screen appears:

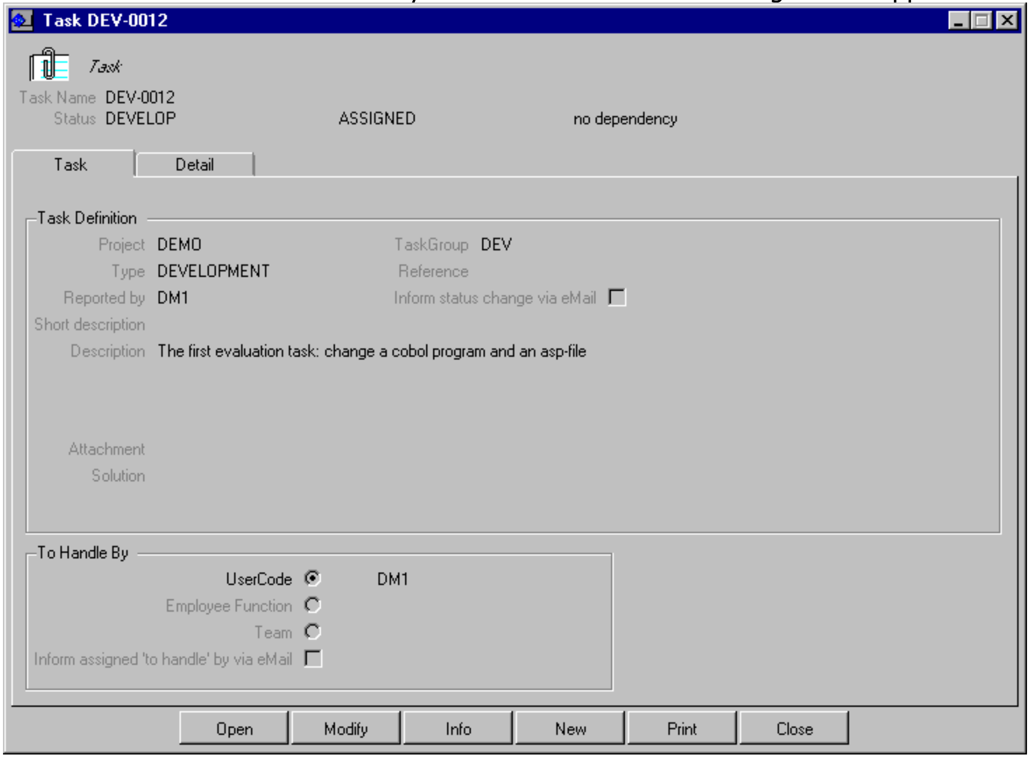


LogInfo :: Browse DEV-0012

LogInfo

Date/Time	Function	User	Description
2000/10/24 16:13:00	SfW task	DM1	Current:
2000/10/24 16:13:00	SfW task	DM1	current:Assign to DM1 at DEVELOP
2000/10/24 16:12:00	SfW task	DM1	Add: with status ENTERED

- Click on button 'Close' and double click on your current task. The following screen appears:



Task Name DEV-0012
Status DEVELOP ASSIGNED no dependency

Task Definition

Project DEMO
TaskGroup DEV
Type DEVELOPMENT
Reference
Reported by DM1
Inform status change via eMail □
Short description
Description The first evaluation task: change a cobol program and an asp-file
Attachment
Solution

To Handle By

UserCode ● DM1
Employee Function ○
Team ○
Inform assigned 'to handle' by via eMail □

Notice the status of the task: DEVELOP/ASSIGNED
Notice that info-block 'To Handle By' contains now your usercode. This means that this usercode is the only person who can work on this task. It is also possible to enter an employee function in this field. In that case all users who are linked to that employee function can work on the task.

- Click on button 'Modify'/'Properties'
  Change 'To Handle By' to: Employee-function EVALUATION

  This makes the task available for all users with employee-function EVALUATION. (= usercodes EVALUATE1 trough 5).

  You are now ready to make a modification to a source!

4 Program Life Cycle Support

The following actions are done in this section:

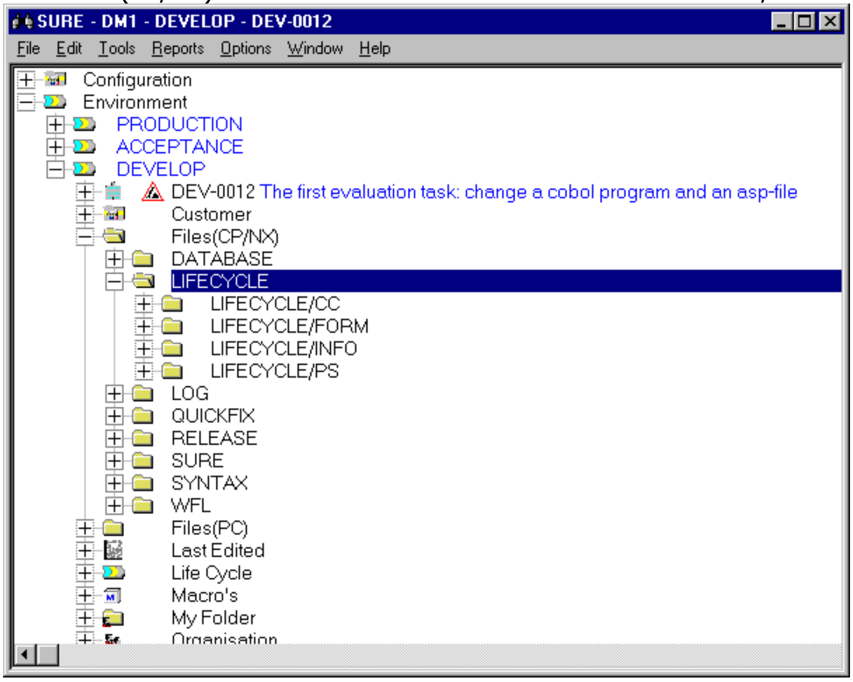
1. Modify an existing CP/NX file, compile the modified file and run it.
2. Modify an existing ASP file.
3. Transfer all modifications to the PRODUCTION environment

4.1 Modify an existing CP/NX file

The procedure is explained via example program LIFECYCLE/PS/011.

We added 4 extra copies of this program in Sure: LIFECYCLE/PS/012 trough LIFECYCLE/PS/015. Each member of the evaluation team can use his own copy of the program to do his tests. The person with usercode EVALUATE1 can use program LIFECYCLE/PS/011, the person with usercode EVALUATE2 can use program LIFECYCLE/PS/012, etcetera.

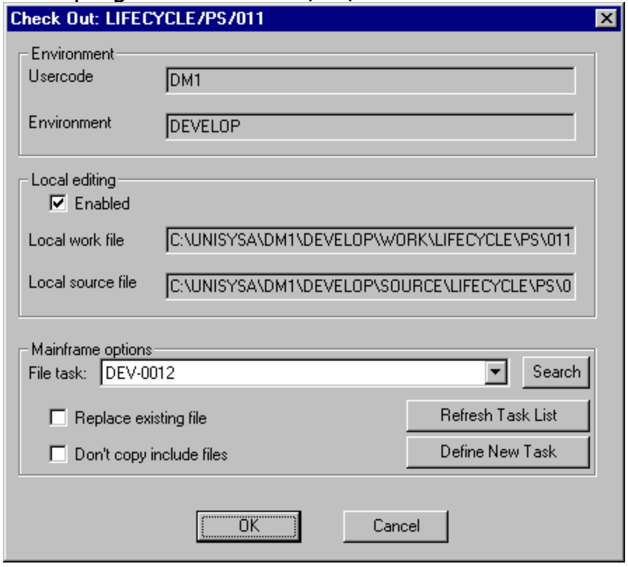
Open folder 'Files (CP/NX)' and then folders 'LIFECYCLE' and 'LIFECYCLE/PS':



SURE - DM1 - DEVELOP - DEV-0012

Configuration
Environment
PRODUCTION
ACCEPTANCE
DEVELOP
DEV-0012 The first evaluation task: change a cobol program and an asp-file
Customer
Files(CP/NX)
DATABASE
LIFECYCLE
LIFECYCLE/CC
LIFECYCLE/FORM
LIFECYCLE/INFO
LIFECYCLE/PS
LOG
QUICKFIX
RELEASE
SURE
SYNTAX
WFL
Files(PC)
Last Edited
Life Cycle
Macro's
My Folder
Organisation

- ✷ Right-click on program LIFECYCLE/PS/011 and choose 'check-out' from the menu:



Check Out: LIFECYCLE/PS/011

Environment
Usercode: DM1
Environment: DEVELOP

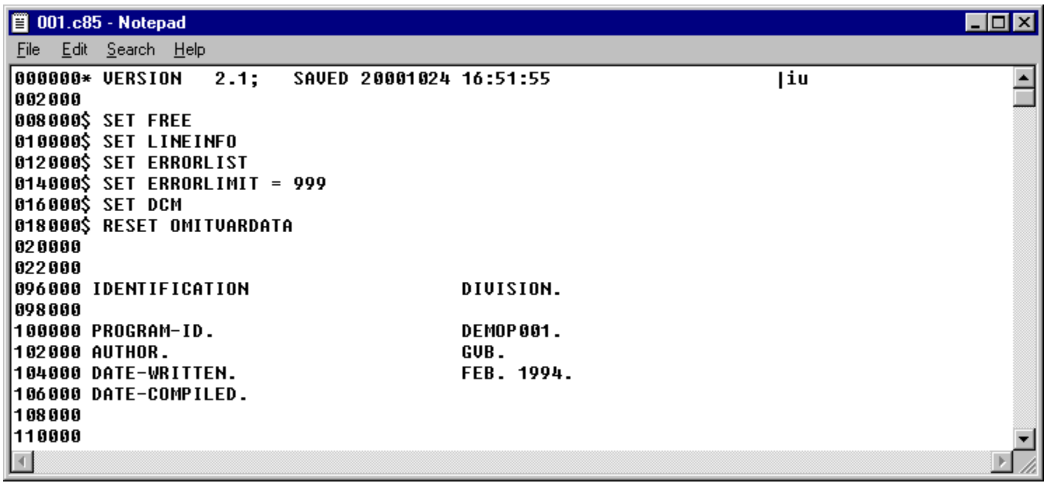
Local editing
☑ Enabled
Local work file: C:\UNISYSA\DM1\DEVELOP\WORK\LIFECYCLE\PS\011
Local source file: C:\UNISYSA\DM1\DEVELOP\SOURCE\LIFECYCLE\PS\0

Mainframe options
File task: DEV-0012
☐ Replace existing file
☐ Don't copy include files

Notice that 'local editing enabled' is set. This option enforces that the file is going to be modified on the PC. If necessary, the file is downloaded from the mainframe to a source-directory the PC. This is only done if the correct version of the file was not yet available in the source-directory. The file is then copied from the PC-source-directory to the PC-work-directory. The PC-source-directory and the PC-work-directory can be defined via menu-bar/options/'sure options'/'local options'.

Notice that the name of the task is your current task. The file will be connected to this task, which means that the file is modified because of your task. If necessary, it is possible to choose another task from the value-list.

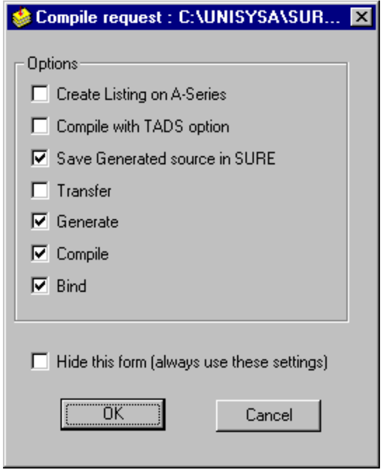
- Click on OK to confirm the 'check-out' options.
- The files is now copied to the PC-work-directory. Click on OK when the file is resident.
- Click on OK to start the local editor:



```
000000* VERSION   2.1;   SAVED 20001024 16:51:55                    |iu
002000
008000$ SET FREE
010000$ SET LINEINFO
012000$ SET ERRORLIST
014000$ SET ERRORLIMIT = 999
016000$ SET DCM
018000$ RESET OMITVARDATA
020000
022000
096000 IDENTIFICATION                   DIVISION.
098000
100000 PROGRAM-ID.                      DEMOP001.
102000 AUTHOR.                          GVB.
104000 DATE-WRITTEN.                    FEB. 1994.
106000 DATE-COMPILED.
108000
110000
```

By default NOTEPAD is started as local editor. We made seamless interfaces to various other editors such as 'ED for Windows', 'MultiEdit', etc. Please refer to chapter 10 of the Sure manual for detailed information about PC editing and local editors.

- Make some small modifications in the file (add some comment lines, etc).
- Save the file and leave the editor.
- Right-click on LIFECYCLE/PS/011 and choose 'Compile, Local' from the menu:



Options

- ☐ Create Listing on A-Series
- ☐ Compile with TADS option
- ☑ Save Generated source in SURE
- ☐ Transfer
- ☑ Generate
- ☑ Compile
- ☑ Bind

☐ Hide this form (always use these settings)

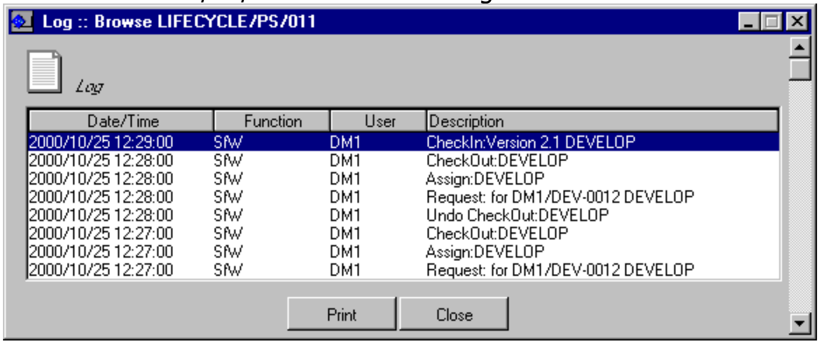
- Click on OK to start the compilation.

The PC-work-file is compared to the PC-source-file and the differences are uploaded to the mainframe and merged with the mainframe original-file. The result-file is compiled on the mainframe. Syntax errors are downloaded to the PC, and can be merged into the PC-work-file.

- Right-click on LIFECYCLE/PS/011 and choose 'check-in' to save the modified file in Sure.

  The PC-work-file is compared to the PC-source-file and the differences are uploaded to the mainframe and merged with the mainframe original-file. The result file is saved in the repository. The PC-work-file is moved to the PC-source-directory, and becomes PC-source-file.

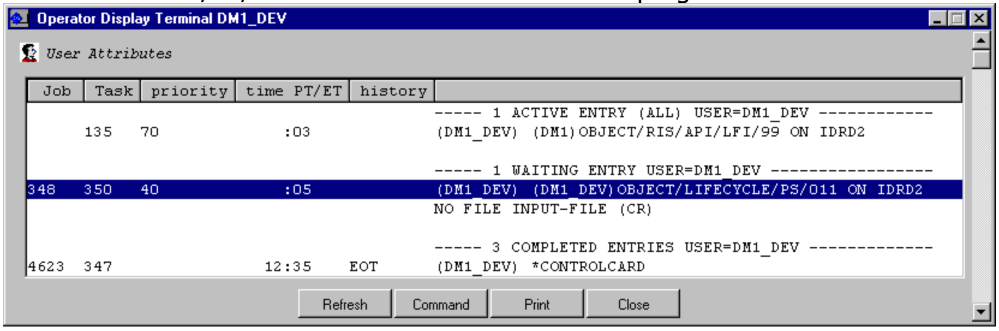
- Right-click on LIFECYCLE/PS/011 and choose 'Log' from the menu:



Date/Time	Function	User	Description
2000/10/25 12:29:00	S/W	DM1	CheckIn:Version 2.1 DEVELOP
2000/10/25 12:28:00	S/W	DM1	CheckOut:DEVELOP
2000/10/25 12:28:00	S/W	DM1	Assign:DEVELOP
2000/10/25 12:28:00	S/W	DM1	Request: for DM1/DEV-0012 DEVELOP
2000/10/25 12:28:00	S/W	DM1	Undo CheckOut:DEVELOP
2000/10/25 12:27:00	S/W	DM1	CheckOut:DEVELOP
2000/10/25 12:27:00	S/W	DM1	Assign:DEVELOP
2000/10/25 12:27:00	S/W	DM1	Request: for DM1/DEV-0012 DEVELOP

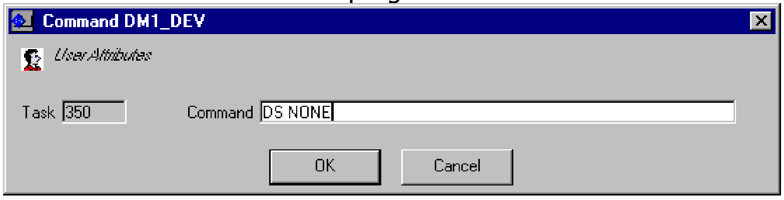
A history of actions on this file is logged in Sure.

- Right-click on LIFECYCLE/PS/011 and choose 'Run' to run the program:



```
 Job  Task  priority  time PT/ET  history
                                          ----- 1 ACTIVE ENTRY (ALL) USER=DM1_DEV ------------
       135   70            :03            (DM1_DEV) (DM1)OBJECT/RIS/API/LFI/99 ON IDRD2

                                          ----- 1 WAITING ENTRY USER=DM1_DEV -----------------
348    350   40            :05            (DM1_DEV) (DM1_DEV)OBJECT/LIFECYCLE/PS/011 ON IDRD2
                                          NO FILE INPUT-FILE (CR)

                                          ----- 3 COMPLETED ENTRIES USER=DM1_DEV -------------
4623   347               12:35    EOT     (DM1_DEV) *CONTROLCARD
```

- Click on button 'Refresh' until the program appears in the list of waiting entries.
- Click then on the line with the program name to make that line current (highlighted), and click then on button 'Command' to DS the program:



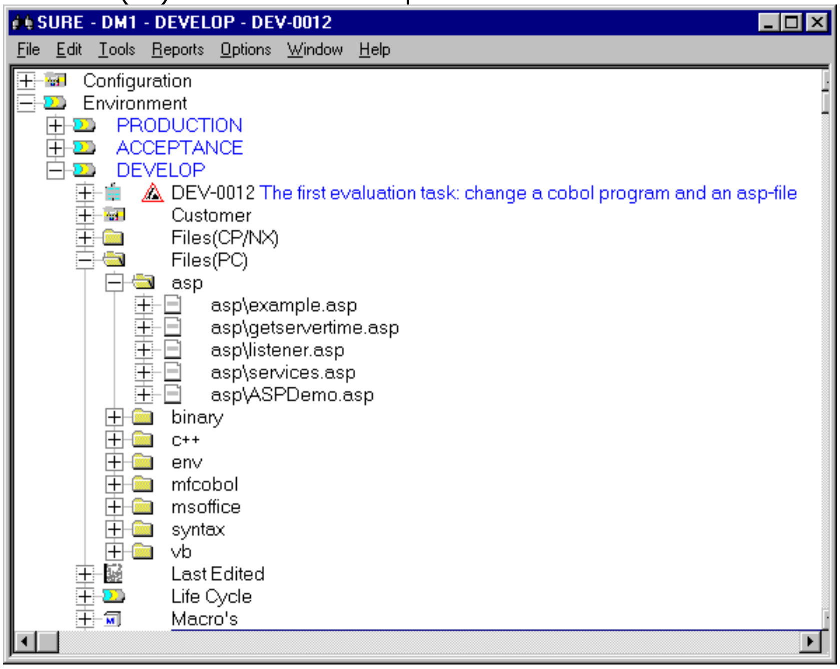
Task 350 Command DS NONE

4.2 Modify a PC file

The procedure is explained via example program 'asp\example.asp'

We added 5 extra copies of this program in Sure: 'asp\example1.asp' trough 'asp\example5.asp'. Each member of the evaluation team can use his own copy of the program to do his tests. The person with usercode EVALUATE1 can use program 'asp\example1.asp', the person with usercode EVALUATE2 can use program 'asp\example2.asp', etcetera.

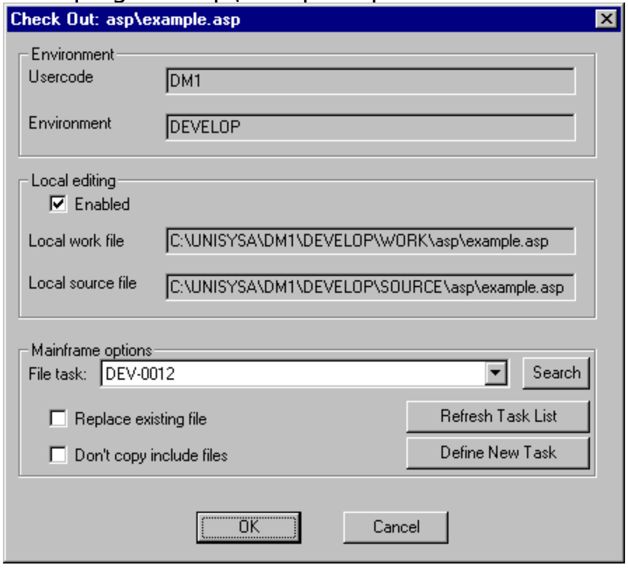
Open folder 'Files (PC)' and then folder 'asp':



SURE - DM1 - DEVELOP - DEV-0012

```
Configuration
Environment
  PRODUCTION
  ACCEPTANCE
  DEVELOP
    DEV-0012 The first evaluation task: change a cobol program and an asp-file
    Customer
    Files(CP/NX)
    Files(PC)
      asp
        asp\example.asp
        asp\getservertime.asp
        asp\listener.asp
        asp\services.asp
        asp\ASPDemo.asp
      binary
      c++
      env
      mfcobol
      msoffice
      syntax
      vb
    Last Edited
    Life Cycle
    Macro's
```

✸ Right-click on program 'asp\example.asp' and choose 'check-out' from the menu:



Check Out: asp\example.asp

Environment

Usercode: DM1

Environment: DEVELOP

Local editing

☑ Enabled

Local work file: C:\UNISYSA\DM1\DEVELOP\WORK\asp\example.asp

Local source file: C:\UNISYSA\DM1\DEVELOP\SOURCE\asp\example.asp

Mainframe options

File task: DEV-0012

□ Replace existing file

□ Don't copy include files

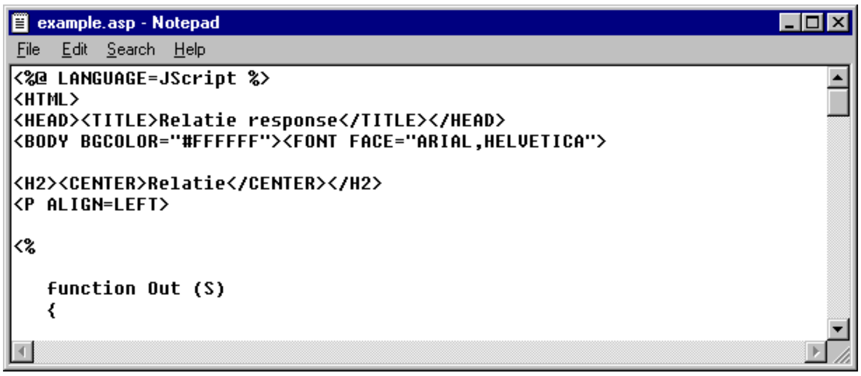
Notice that 'local editing enabled' is set. This option enforces that the file is going to be modified on the PC. If necessary, the file is downloaded from the mainframe to a source-directory the PC. This is only done if the correct version of the file was not yet available in the source-directory. The file is then copied from the PC-source-directory to the PC-work-directory. The PC-source-directory and the PC-work-directory can be defined via menu-bar/options/'sure options'/'local options'.

Notice that the name of the task is your current task. The file will be connected to this task, which means that the file is modified because of your task. If necessary, it is possible to choose another task from the value-list.

✸ Click on OK to confirm the 'check-out' options.

✸ The files is now copied to the PC-work-directory. Click on OK when the file is resident.

- Click on OK to start the local editor:



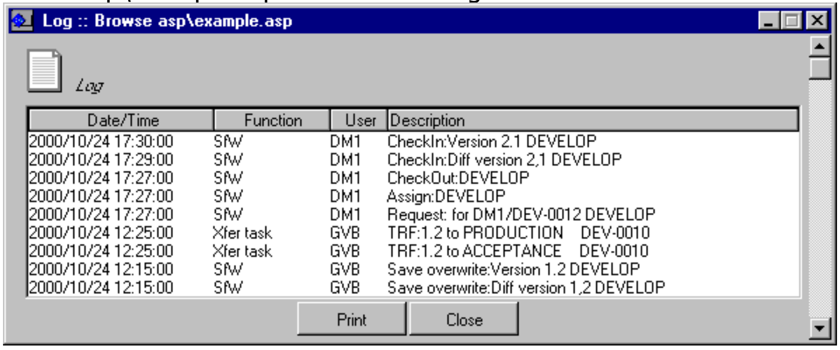
```
<%@ LANGUAGE=JScript %>
<HTML>
<HEAD><TITLE>Relatie response</TITLE></HEAD>
<BODY BGCOLOR="#FFFFFF"><FONT FACE="ARIAL,HELVETICA">

<H2><CENTER>Relatie</CENTER></H2>
<P ALIGN=LEFT>

<%

   function Out (S)
   {
```

The correct editor is started depending on the file extension. In the case of an unknown file extension NOTEPAD is started as default local editor.

- Make some small modifications in the file (add some comment lines or spaces, etc).

- Right-click on ‘asp\example.asp’ and choose ‘check-in’ to save the modified file in Sure.

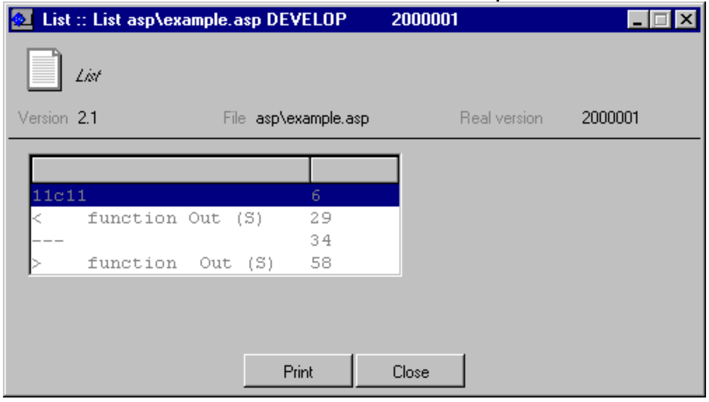
- Right-click on ‘asp\example.asp’ and choose ‘Log’ from the menu:



Date/Time	Function	User	Description
2000/10/24 17:30:00	SfW	DM1	CheckIn:Version 2.1 DEVELOP
2000/10/24 17:29:00	SfW	DM1	CheckIn:Diff version 2,1 DEVELOP
2000/10/24 17:27:00	SfW	DM1	CheckOut:DEVELOP
2000/10/24 17:27:00	SfW	DM1	Assign:DEVELOP
2000/10/24 17:27:00	SfW	DM1	Request: for DM1/DEV-0012 DEVELOP
2000/10/24 12:25:00	Xfer task	GVB	TRF:1.2 to PRODUCTION DEV-0010
2000/10/24 12:25:00	Xfer task	GVB	TRF:1.2 to ACCEPTANCE DEV-0010
2000/10/24 12:15:00	SfW	GVB	Save overwrite:Version 1.2 DEVELOP
2000/10/24 12:15:00	SfW	GVB	Save overwrite:Diff version 1,2 DEVELOP

A history of actions on this file is logged in Sure.

- Open folder ‘asp\example.asp’ and then folder ‘Deltafile’. Right-click on the newest delta file to list the differences between the modified file and the previous version of the file:



Version 2.1 File asp\example.asp Real version 2000001

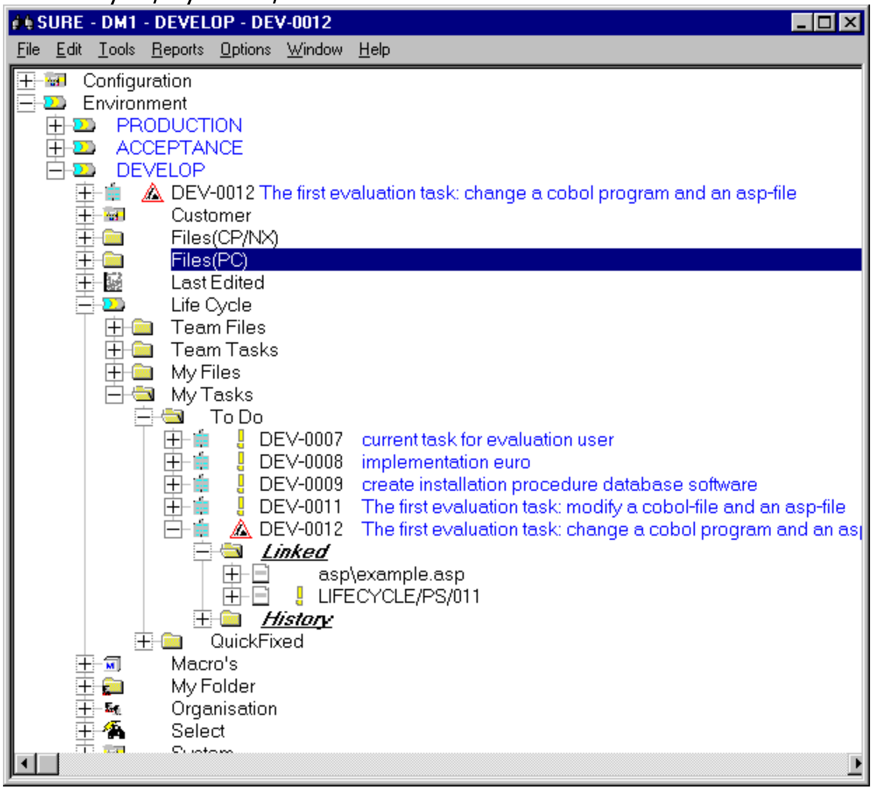
```
11c11                    6
<     function Out  (S)  29
---                      34
>     function   Out  (S)  58
```

In this example a few spaces were added on a line.

4.3 Transfer Adaptations to the Next Environment

All adaptations are linked to a task: the current task of the programmer who made the adaptation. When the programmer has finished his activities for the task, then that task can be transferred to the next environment. All sources that were adapted because of the task are then transferred too.

□ Open folder 'LifeCycle/My-tasks'/'To Do':



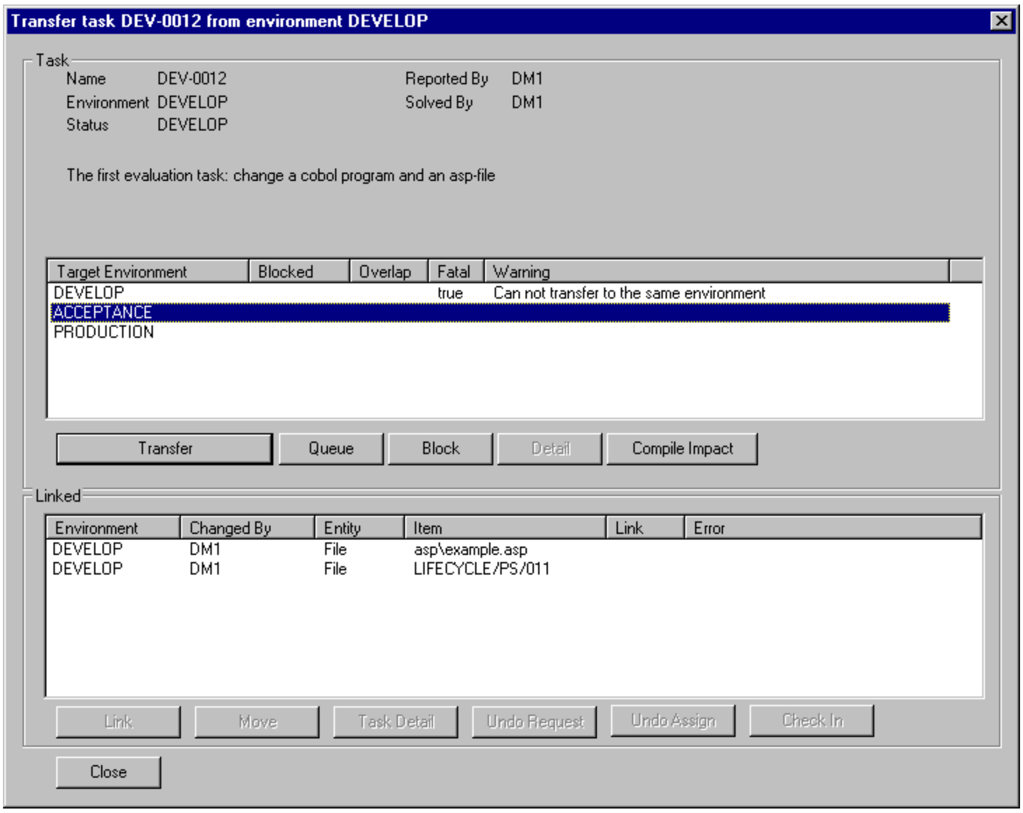
SURE - DM1 - DEVELOP - DEV-0012
File Edit Tools Reports Options Window Help

```
Configuration
Environment
  PRODUCTION
  ACCEPTANCE
  DEVELOP
    DEV-0012 The first evaluation task: change a cobol program and an asp-file
    Customer
    Files(CP/NX)
    Files(PC)
    Last Edited
    Life Cycle
      Team Files
      Team Tasks
      My Files
      My Tasks
        To Do
          DEV-0007   current task for evaluation user
          DEV-0008   implementation euro
          DEV-0009   create installation procedure database software
          DEV-0011   The first evaluation task: modify a cobol-file and an asp-file
          DEV-0012   The first evaluation task: change a cobol program and an as
            Linked
              asp\example.asp
              LIFECYCLE/PS/011
            History
        QuickFixed
    Macro's
    My Folder
    Organisation
    Select
    System
```

✷ Right-click on your current task and choose 'Transfer' from the menu.

A transfer-dialogue is presented where the possible destination environments are given, and where all files that were modified because of this task are listed.

- ✷ Click on the line with destination environment ACCEPTANCE, because the task has to be transferred to that environment:



Transfer task DEV-0012 from environment DEVELOP

Task

Name DEV-0012 Reported By DM1
Environment DEVELOP Solved By DM1
Status DEVELOP

The first evaluation task: change a cobol program and an asp-file

Target Environment	Blocked	Overlap	Fatal	Warning
DEVELOP			true	Can not transfer to the same environment
ACCEPTANCE				
PRODUCTION				

Linked

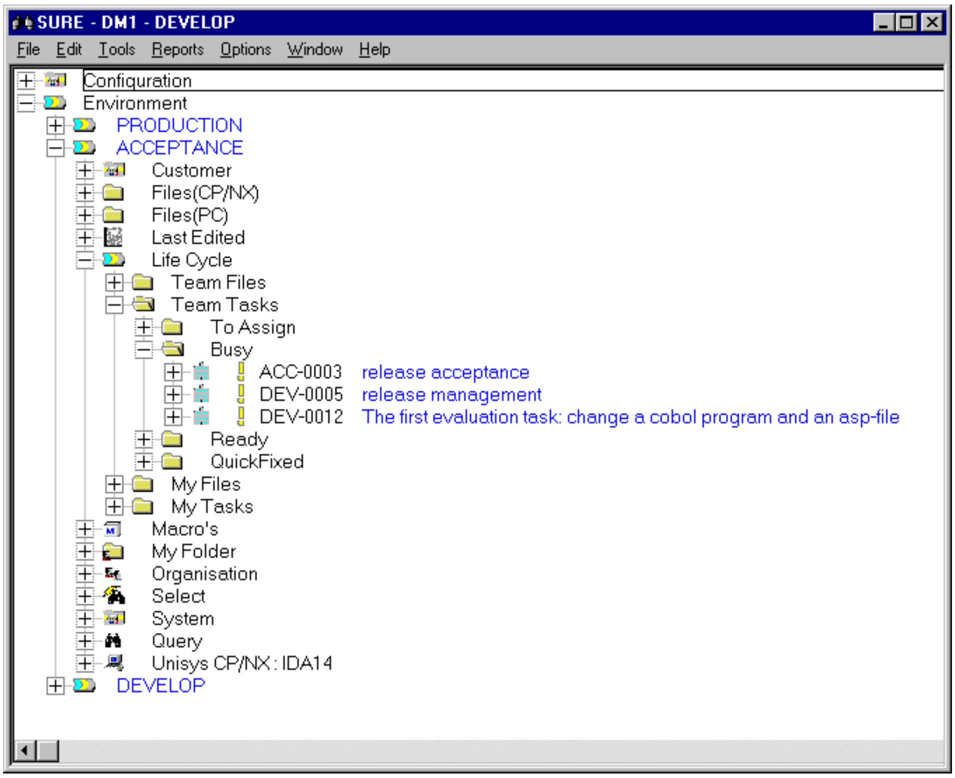
Environment	Changed By	Entity	Item	Link	Error
DEVELOP	DM1	File	asp\example.asp		
DEVELOP	DM1	File	LIFECYCLE/PS/011		

- ✷ Click on the button 'Transfer' to transfer the task from DEVELOP to ACCEPTANCE.

- ✷ Right-click on your current task and choose 'Properties'.
  The status of the task is now ACCEPTANCE.

- ✷ Press on the F5 function key while your current task is highlighted, to refresh your ToDo list. The transferred task is not in your ToDo list, so you can not work on this task anymore.

  Open folder 'ACCEPTANCE'/'Life Cycle'/'Team Tasks'/'Busy':



- Configuration
- Environment
  - PRODUCTION
  - ACCEPTANCE
    - Customer
    - Files(CP/NX)
    - Files(PC)
    - Last Edited
    - Life Cycle
      - Team Files
      - Team Tasks
        - To Assign
        - Busy
          - ACC-0003 release acceptance
          - DEV-0005 release management
          - DEV-0012 The first evaluation task: change a cobol program and an asp-file
        - Ready
        - QuickFixed
      - My Files
      - My Tasks
    - Macro's
    - My Folder
    - Organisation
    - Select
    - System
    - Query
    - Unisys CP/NX : IDA14
  - DEVELOP

The transferred task is now resident in the 'Busy task' list on the next environment. The test team can evaluate the modifications that were made because of this task and transfer the task further to PRODUCTION when the evaluation is done.

Read chapters 36.8.6 through 36.9 for detailed information about transferring a task.

5 Build Support & Distribution Support

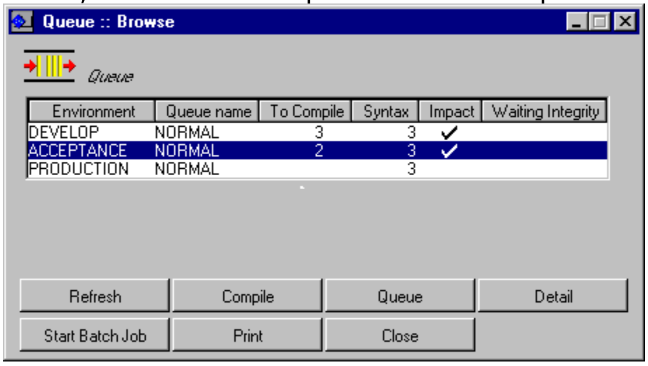
5.1 CP/NX build support

Files that are loaded in Sure are automatically placed into the Sure-compile-queue. In this section the Sure batch job will be started to compile programs via Sure, and to install the object in the correct object-location.

The batch job performs the following functions:

A. Process the Sure compile queue: all files in the compile-queue will be compiled. In case of an include file all referencing programs will be compiled.
B. Copy the compiled objects to the correct object location.
C. Create delta-files between the changed files and their previous versions.
D. Examine (scan) changed files for language statements that refer to other files.
E. Process the Sure find queue.
F. Process the Sure replace queue.

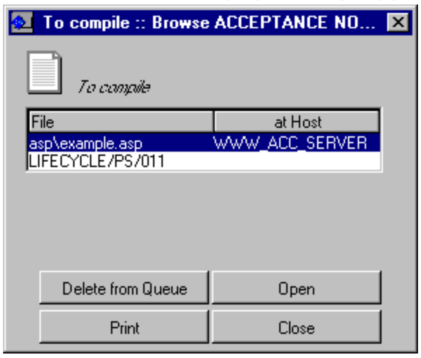
✷ Click on 'Tools', and then on 'Compile Interface' to inspect the contents of the compile-queue:



Environment	Queue name	To Compile	Syntax	Impact	Waiting Integrity
DEVELOP	NORMAL	3	3	✓	
ACCEPTANCE	NORMAL	2	3	✓	
PRODUCTION	NORMAL		3		

In this example the compile-queue for environment ACCEPTANCE contains 2 programs.

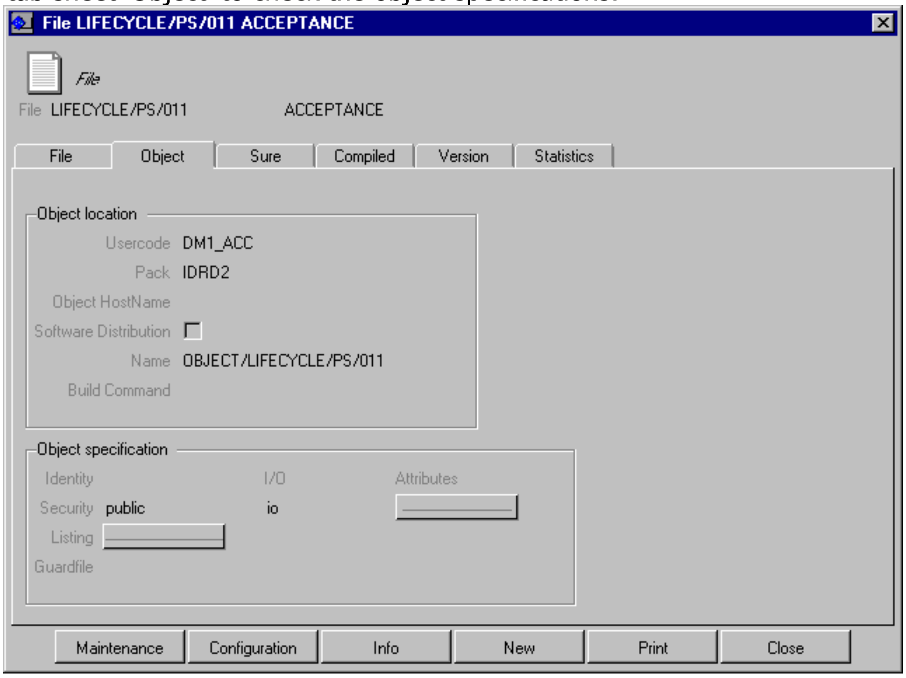
✷ Click on line ACCEPTANCE and then on button 'Detail' and choose 'to compile' from the menu:



File	at Host
asp\example.asp	WWW_ACC_SERVER
LIFECYCLE/PS/011	

The two files in the Sure compile queue.

Click on a program LIFECYCLE/PS/011 to make it current.
Click on button 'Open' to check the properties of that file.
Click on tab sheet 'Object' to check the object specifications:



File LIFECYCLE/PS/011 ACCEPTANCE

File LIFECYCLE/PS/011 ACCEPTANCE

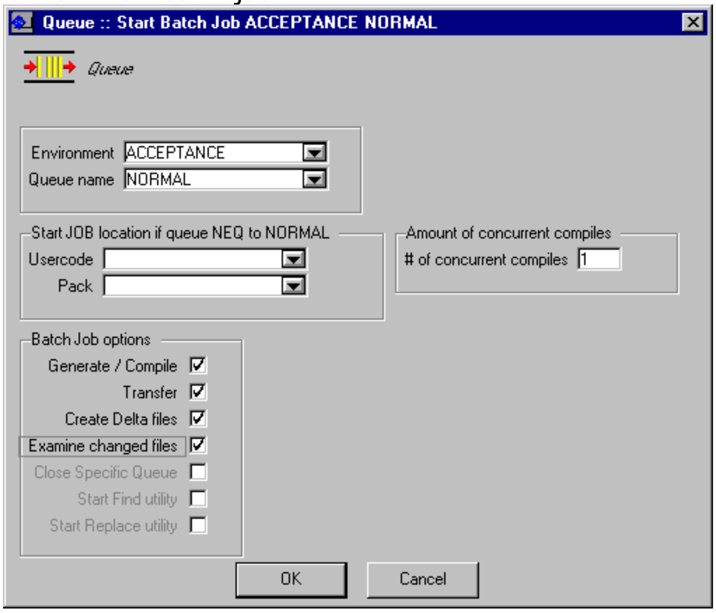
Object location
Usercode DM1_ACC
Pack IDRD2
Object HostName
Software Distribution □
Name OBJECT/LIFECYCLE/PS/011
Build Command

Object specification
Identity
I/O
Attributes
Security public
io
Listing
Guardfile

The object of this file will be (DM1_DEV)OBJECT/LIFECYCLE/PS/011 ON IDRD2. The object-location usercode and pack are inherited from the default object location of system DEMO as a result of option 'Inherit default object location' of file-type SOURCE.

✷ Click 2 times on button 'Close' to return to dialogue 'Compile Interface'.

✷ Click on button 'Start batch job'



Queue :: Start Batch Job ACCEPTANCE NORMAL

Environment ACCEPTANCE
Queue name NORMAL

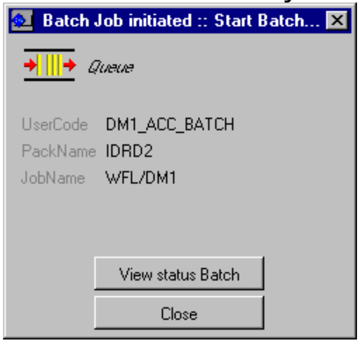
Start JOB location if queue NEQ to NORMAL
Usercode
Pack

Amount of concurrent compiles
# of concurrent compiles 1

Batch Job options
Generate / Compile ☑
Transfer ☑
Create Delta files ☑
Examine changed files ☑
Close Specific Queue □
Start Find utility □
Start Replace utility □

✷ Set batch job options
- 'Generate and Compile' (function A)
- Transfer (function B)
- Create delta files (function C)
- Examine changed files (function D)

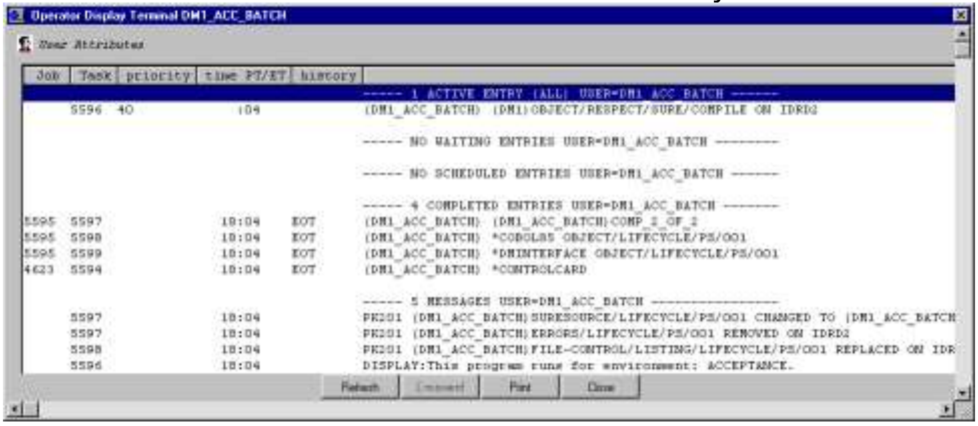
- Click on button 'OK' to start the job:



UserCode DM1_ACC_BATCH
PackName IDRD2
JobName WFL/DM1

A standard Sure evening job is available for each environment. The name of this job is WFL/<environment>/SURE, and the job was placed on disk during the installation.

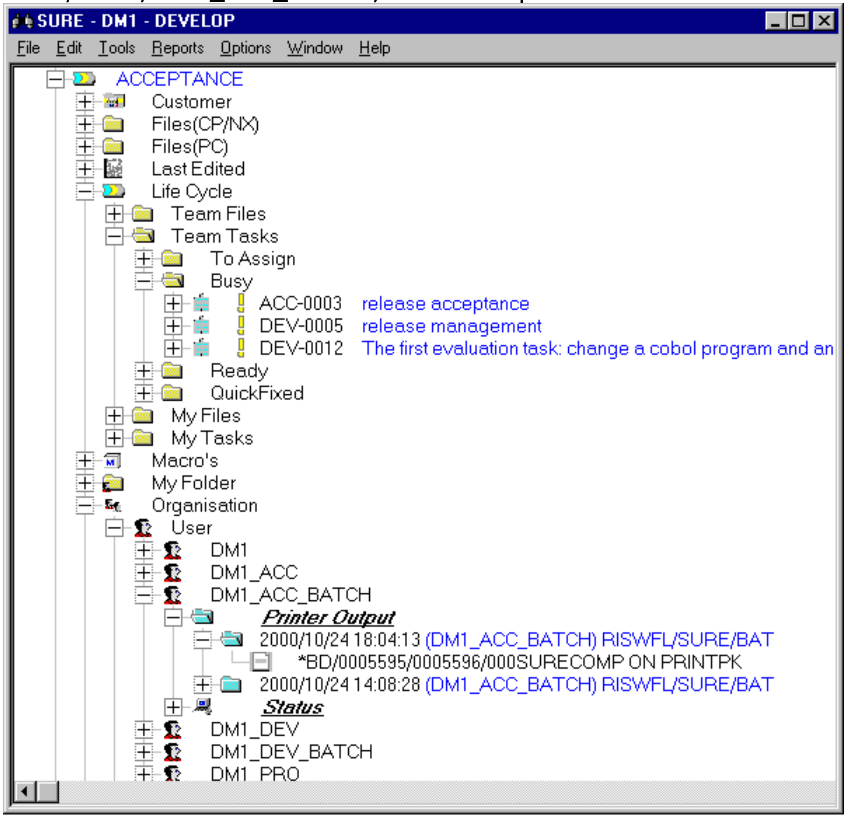
- Click on button 'View status batch' to control the status of the batch job:



```
                                          ----- 1 ACTIVE ENTRY (ALL) USER=DM1_ACC_BATCH ------
     5596  40          :04                (DM1_ACC_BATCH) (DM1)OBJECT/RESPECT/SURE/COMPILE ON IDRD2

                                          ----- NO WAITING ENTRIES USER=DM1_ACC_BATCH --------

                                          ----- NO SCHEDULED ENTRIES USER=DM1_ACC_BATCH ------

                                          ----- 4 COMPLETED ENTRIES USER=DM1_ACC_BATCH -------
5595 5597              18:04    EOT       (DM1_ACC_BATCH) (DM1_ACC_BATCH)COMP_2_OF_2
5595 5598              18:04    EOT       (DM1_ACC_BATCH) *COBOL85 OBJECT/LIFECYCLE/PS/001
5595 5599              18:04    EOT       (DM1_ACC_BATCH) *DMINTERFACE OBJECT/LIFECYCLE/PS/001
4623 5594              18:04    EOT       (DM1_ACC_BATCH) *CONTROLCARD

                                          ----- 5 MESSAGES USER=DM1_ACC_BATCH ---------------
     5597              18:04              PK201 (DM1_ACC_BATCH)SURESOURCE/LIFECYCLE/PS/001 CHANGED TO (DM1_ACC_BATCH
     5597              18:04              PK201 (DM1_ACC_BATCH)ERRORS/LIFECYCLE/PS/001 REMOVED ON IDRD2
     5598              18:04              PK201 (DM1_ACC_BATCH)FILE-CONTROL/LISTING/LIFECYCLE/PS/001 REPLACED ON IDR
     5596              18:04              DISPLAY:This program runs for environment: ACCEPTANCE.
```

- Wait until the Sure batch is finished

- The Sure batch has produced a compilation overview, that is available via folder ‘Organisation’/’User’/’DM1_ACC_BATCH’/’Printer Output’.



```
ACCEPTANCE
  Customer
  Files(CP/NX)
  Files(PC)
  Last Edited
  Life Cycle
    Team Files
    Team Tasks
      To Assign
      Busy
        ACC-0003   release acceptance
        DEV-0005   release management
        DEV-0012   The first evaluation task: change a cobol program and an
      Ready
      QuickFixed
    My Files
    My Tasks
  Macro's
  My Folder
  Organisation
    User
      DM1
      DM1_ACC
      DM1_ACC_BATCH
        Printer Output
          2000/10/24 18:04:13 (DM1_ACC_BATCH) RISWFL/SURE/BAT
            *BD/0005595/0005596/000SURECOMP ON PRINTPK
          2000/10/24 14:08:28 (DM1_ACC_BATCH) RISWFL/SURE/BAT
        Status
      DM1_DEV
      DM1_DEV_BATCH
      DM1_PRO
```

- Open the correct print request.
  Right-click on backupfile ‘BD/000…….SURECOMP’ and choose ‘Download’ form the menu.

  The following compile overview is copied to your PC and opened in WordForWindows:

```
@E>421 Compilation overview                20001024 18:04:13 Page   1

                Mixnumber : 5595/5596
                Usercode  : DM1_ACC_BATCH
                Family    : IDRD2
                Repository: (DM1)INFDB ON IDRD2
Warning             Environment: ACCEPTANCE
Warning             Compilation mode      : NORMAL
Warning             Compilation queue     : FILE-CONTROL
                Use no copyfiles from star '*'
                Only create compilation listings for changed sources
                Remove downloaded copyfiles after the compilations
                Use integrity mechanism SYSTEM DEMO
                Use startjobs
                Disk location 'BACKUP' = PRINTPK




Warning             This copy-file/task creates an integrity-chain: DEV-0012
                Use version   2.1   of copy-file (DM1_ACC_BATCH)LIFECYCLE/CC/001
                Use version   1.1   of copy-file (DM1_ACC_BATCH)LIFECYCLE/CC/002
                Use version   1.1   of copy-file (DM1_ACC_BATCH)LIFECYCLE/CC/003

                Program in the compile-queue: asp\example.asp
                Program in the compile-queue: LIFECYCLE/PS/011



Warning COMP_1      PC compilation not yet completed asp\example.asp

      COMP_2      Compile version   2.2   of LIFECYCLE/PS/011
```

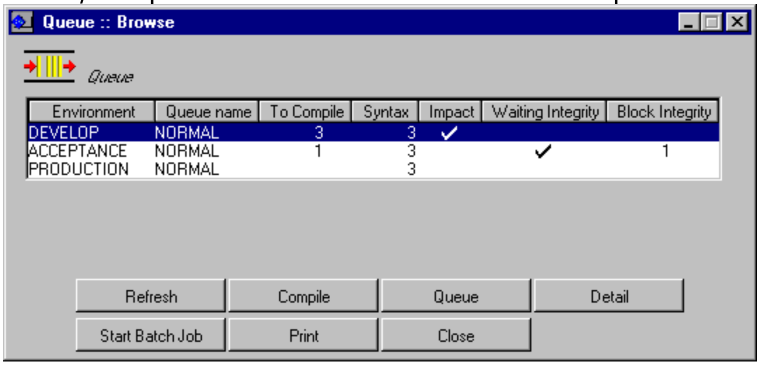
```
COMP_2      Compilation ok: LIFECYCLE/PS/011








   The following tables show the waiting integrity chains.
   The programs that are mentioned in these chains will not be transferred, until the reason
   why the chain is waiting is solved.
   A program that is marked with SNTX blocks the integrity chain, and this
   program has be compiled successfully before the waiting chain can be transferred.
   A task that is marked with SNTX blocks the integrity chain, because one or more
   generations that are triggered by the impact analyses failed.
   The RIS modules that need to be regenerated to solve the task are reported just below
   the table.

         Table 0 triggered by asp\example.asp



            Table 0
                                  1:DEV-0012
         Sntx asp\example.asp           1
            LIFECYCLE/PS/011            1






         Compilations with syntax errors:     0
         Pending PC compilations        :     1
         Aborted compilations           :     0
         Successful compilations        :     1
                                        -------
                          Total:      2


         End of task RESPECT/SURE/COMPILE
```

In this overview we see that the compilation of mainframe file LIFECYCLE/PS/011 was completed ok, but the object is not transferred to the correct object location because the PC build of file ‘asp\example.asp’ is not yet done. Notice that the modifications of these two files are dependent of each other because these modifications were done under the same current task.

First the build of the PC file has to be done. This will automatically unlock the mainframe object.
Then the Sure batch has to be restarted to transfer the waiting object of LIFECYCLE/PS/011 to the correct object location.

5.2 PC build support

- Click on ‘Tools’/’Compile Interface’ to check the current compile status:

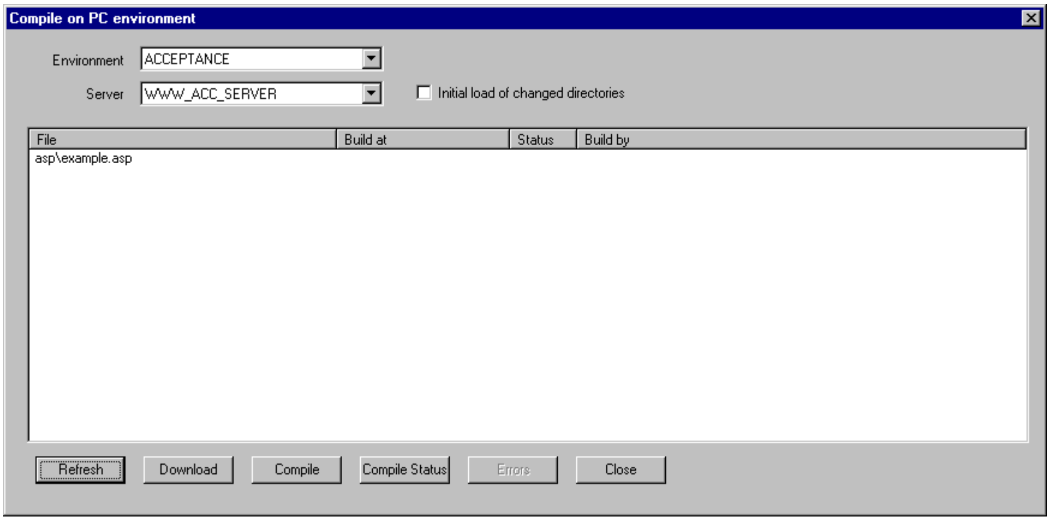


Environment	Queue name	To Compile	Syntax	Impact	Waiting Integrity	Block Integrity
DEVELOP	NORMAL	3	3	✓		
ACCEPTANCE	NORMAL	1	3		✓	1
PRODUCTION	NORMAL		3			

One file must be compiled for ACCEPTANCE: ‘asp\example.asp’
One file is blocking an integrity chain in ACCEPTANCE: ‘asp\example.asp’
Programs are waiting for integrity: LIFECYCLE/PS/011

- Click on 'Tools'/'PC environment'/'Build support'.

- Choose environment ACCEPTANCE from the value list en click on button 'Refresh':


Compile on PC environment

Environment: ACCEPTANCE

Server: WWW_ACC_SERVER

□ Initial load of changed directories

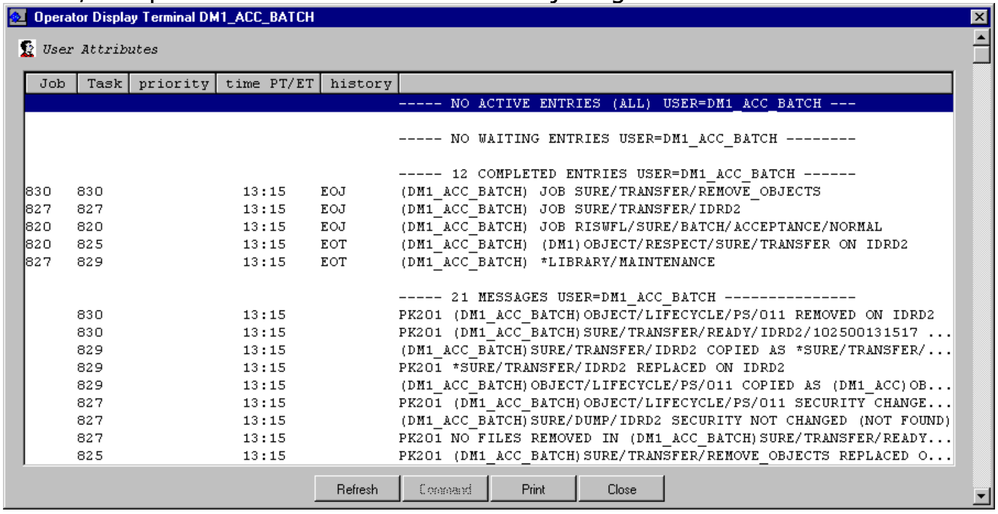
File	Build at	Status	Build by
asp\example.asp			

- Click on 'asp\example.asp' to make that file current, and click then on button 'Compile'

  This start the build process on the PC and it also unlocks the waiting integrity chain with mainframe objects that are compiled but not yet transferred.

5.3 CP/NX build support (continued)

- Click on 'Tools'/'Compile Interface' and start the batch job again for ACCEPTANCE:


Operator Display Terminal DM1_ACC_BATCH

User Attributes

```
 Job   Task   priority   time PT/ET   history
                                             ----- NO ACTIVE ENTRIES (ALL) USER=DM1_ACC_BATCH ---

                                             ----- NO WAITING ENTRIES USER=DM1_ACC_BATCH --------

                                             ----- 12 COMPLETED ENTRIES USER=DM1_ACC_BATCH ------
830   830                13:15     EOJ       (DM1_ACC_BATCH) JOB SURE/TRANSFER/REMOVE_OBJECTS
827   827                13:15     EOJ       (DM1_ACC_BATCH) JOB SURE/TRANSFER/IDRD2
820   820                13:15     EOJ       (DM1_ACC_BATCH) JOB RISWFL/SURE/BATCH/ACCEPTANCE/NORMAL
820   825                13:15     EOT       (DM1_ACC_BATCH) (DM1)OBJECT/RESPECT/SURE/TRANSFER ON IDRD2
827   829                13:15     EOT       (DM1_ACC_BATCH) *LIBRARY/MAINTENANCE

                                             ----- 21 MESSAGES USER=DM1_ACC_BATCH --------------
      830                13:15               PK201 (DM1_ACC_BATCH)OBJECT/LIFECYCLE/PS/011 REMOVED ON IDRD2
      830                13:15               PK201 (DM1_ACC_BATCH)SURE/TRANSFER/READY/IDRD2/102500131517 ...
      829                13:15               (DM1_ACC_BATCH)SURE/TRANSFER/IDRD2 COPIED AS *SURE/TRANSFER/...
      829                13:15               PK201 *SURE/TRANSFER/IDRD2 REPLACED ON IDRD2
      829                13:15               (DM1_ACC_BATCH)OBJECT/LIFECYCLE/PS/011 COPIED AS (DM1_ACC)OB...
      827                13:15               PK201 (DM1_ACC_BATCH)OBJECT/LIFECYCLE/PS/011 SECURITY CHANGE...
      827                13:15               (DM1_ACC_BATCH)SURE/DUMP/IDRD2 SECURITY NOT CHANGED (NOT FOUND)
      827                13:15               PK201 NO FILES REMOVED IN (DM1_ACC_BATCH)SURE/TRANSFER/READY...
      825                13:15               PK201 (DM1_ACC_BATCH)SURE/TRANSFER/REMOVE_OBJECTS REPLACED O...
```

OBJECT/LIFECYCLE/PS/011 is now copied to the correct location.

Chapter 22 gives detailed information about the Sure compile + transfer process (functions A, B).
Chapter 16 gives detailed information about delta files (function C).
Chapter 24 gives detailed information about the examine process (function D).

An important feature of Sure is the integrity mechanism: Sure controls that all objects in the run-time environment are compiled with the same set of copy-files. If a copy-file changes, then all programs that use that copy-file will be recompiled.
Read chapter 22.9 through 22.9.6 for detailed information.

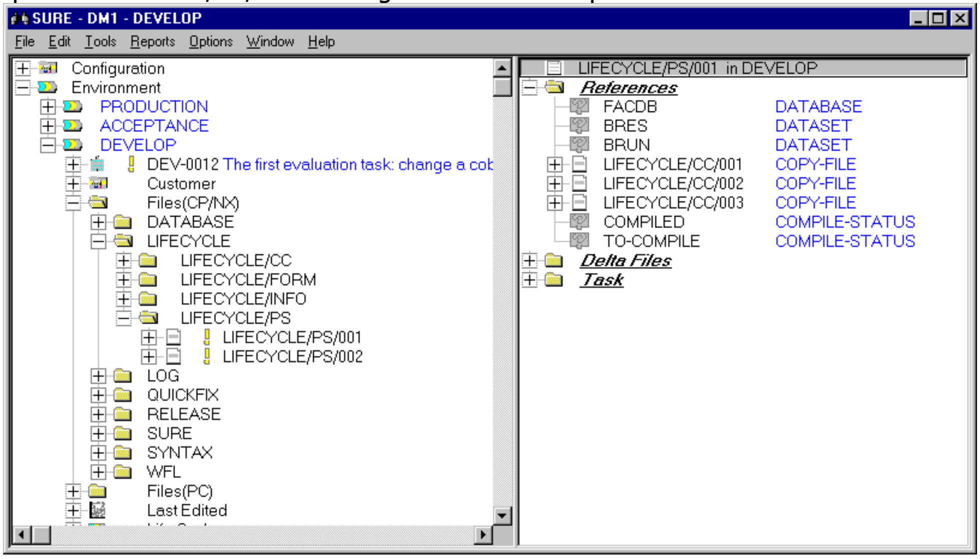
Transfer the task to PRODUCTION, build the PC file for PRODUCTION and start the batch job for environment PRODUCTION.

6 Support Functions

6.1 Cross Reference and Data Dictionary Functions

Each time a new version of a source is loaded in Sure, the source will be cross examined for used datasets, sets, databases, libraries, input or output files, external procedures, etceteras. All found issues are linked to the source via relationships. The examine function is normally done during the evening batch, but on-line command EXAMINE is available for direct results.

✷ Drag/drop file LIFECYCLE/PS/011 to a right window and open folder 'references':


SURE - DM1 - DEVELOP

File Edit Tools Reports Options Window Help

```
+ Configuration
- Environment
  + PRODUCTION
  + ACCEPTANCE
  - DEVELOP
    + ! DEV-0012 The first evaluation task: change a cob
    + Customer
    - Files(CP/NX)
      + DATABASE
      - LIFECYCLE
        + LIFECYCLE/CC
        + LIFECYCLE/FORM
        + LIFECYCLE/INFO
        - LIFECYCLE/PS
          + ! LIFECYCLE/PS/001
          + ! LIFECYCLE/PS/002
      + LOG
      + QUICKFIX
      + RELEASE
      + SURE
      + SYNTAX
      + WFL
    + Files(PC)
    + Last Edited
```

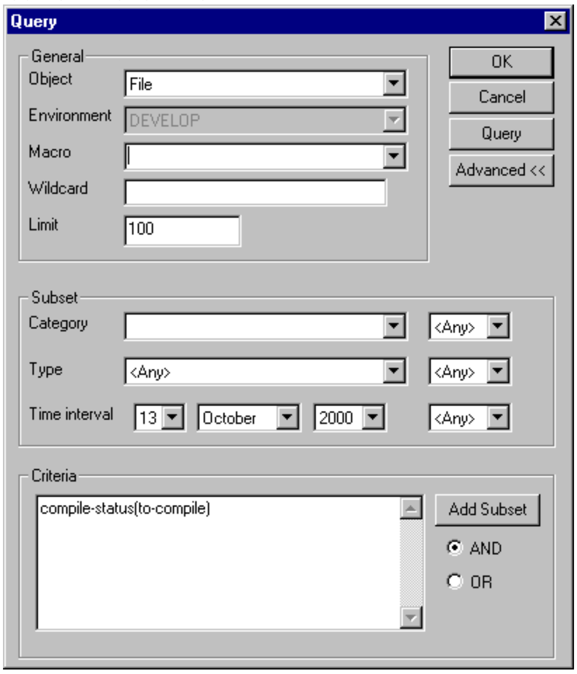
```
LIFECYCLE/PS/001  in DEVELOP
- References
    FACDB              DATABASE
    BRES               DATASET
    BRUN               DATASET
  + LIFECYCLE/CC/001   COPY-FILE
  + LIFECYCLE/CC/002   COPY-FILE
  + LIFECYCLE/CC/003   COPY-FILE
    COMPILED           COMPILE-STATUS
    TO-COMPILE         COMPILE-STATUS
+ Delta Files
+ Task
```

Program LIFECYCLE/PS/011 references three copy-files and a database.

It is not only possible to inquire the attributes of a file, it is also possible to select groups of files using their attributes. A special QUERY facility is available where groups of files can be selected.

✷ Double click on 'Query' to enter the query function.

✷ Click on button 'Advanced'


Query

General
- Object: File
- Environment: DEVELOP
- Macro:
- Wildcard:
- Limit: 100

OK | Cancel | Query | Advanced <<

Subset
- Category: <Any>
- Type: <Any> <Any>
- Time interval: 13 October 2000 <Any>

Criteria
- compile-status(to-compile)

Add Subset

● AND
○ OR

Example 1: Select all files that are placed in the Sure evening compile queue:

Enter in 'Select Criteria' : COMPILE-STATUS(TO-COMPILE)

Example 2: Select all files that are maintained by usercode <your usercode>:
Enter in 'Select Criteria' : MAINTAINED(<your usercode>)

Example 3: Select all files that use copy-file LIFECYCLE/CC/001:
Enter in 'Select Criteria' : COPY-FILE(LIFECYCLE/CC/001).

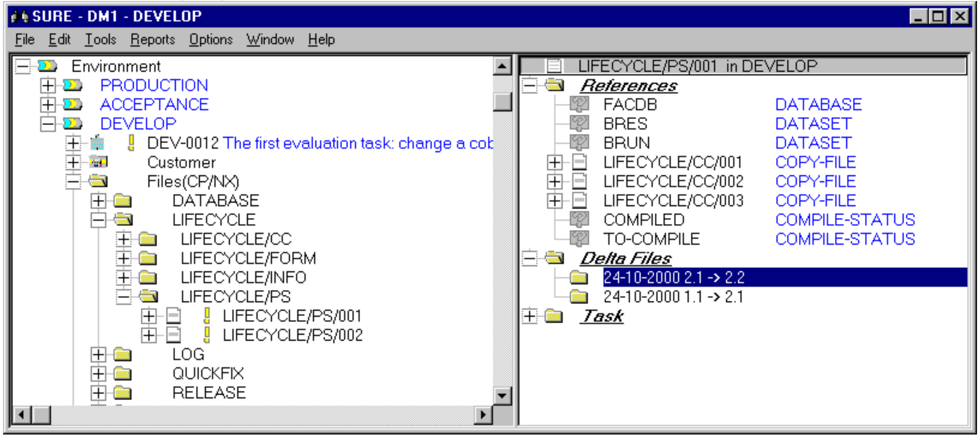
Read chapters 12 and 24 for detailed information about the select function.

6.2 Delta Files

All adaptations that are made to sources are kept in the repository. After an adaptation to a source Sure will make a comparison between the previous FileVersion that was active in an environment, and the newly saved FileVersion. The result of such a comparison is called a DELTA file, and these delta files are stored in the repository.

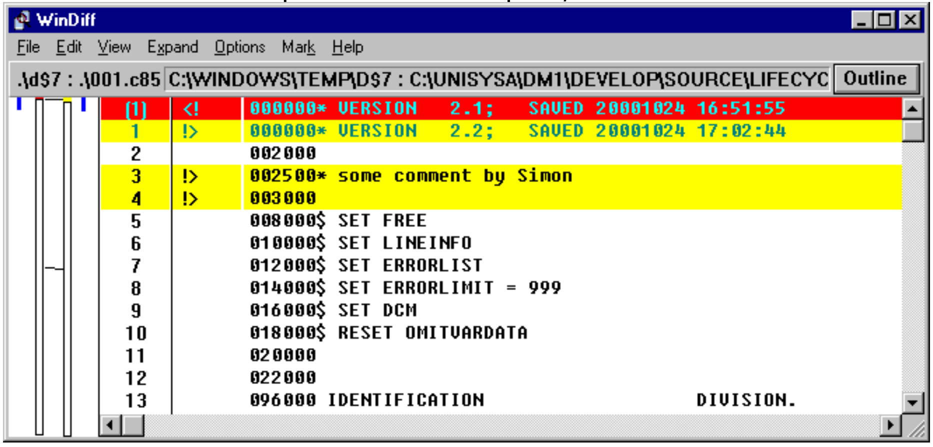
It is possible to browse through delta files, or to roll a file back to an old version using these delta files.

✸ Open folder LIFECYCLE/PS/011 and then 'Delta-files':



A click on the delta-file timestamp will show the contents of that delta-file or compares two version of the file.

Right-click on the first timestamp and choose 'Compare'/'With latest version':


WinDiff
File Edit View Expand Options Mark Help
.\d$7 : .\001.c85 C:\WINDOWS\TEMP\D$7 : C:\UNISYSA\DM1\DEVELOP\SOURCE\LIFECYC
Outline

```
 (1)  <!  000000* VERSION    2.1;   SAVED 20001024 16:51:55
  1   !>  000000* VERSION    2.2;   SAVED 20001024 17:02:44
  2       002000
  3   !>  002500* some comment by Simon
  4   !>  003000
  5       008000$ SET FREE
  6       010000$ SET LINEINFO
  7       012000$ SET ERRORLIST
  8       014000$ SET ERRORLIMIT = 999
  9       016000$ SET DCM
 10       018000$ RESET OMITVARDATA
 11       020000
 12       022000
 13       096000 IDENTIFICATION                    DIVISION.
```

Refer to chapter 16 of the Sure manual for detailed information about delta files.

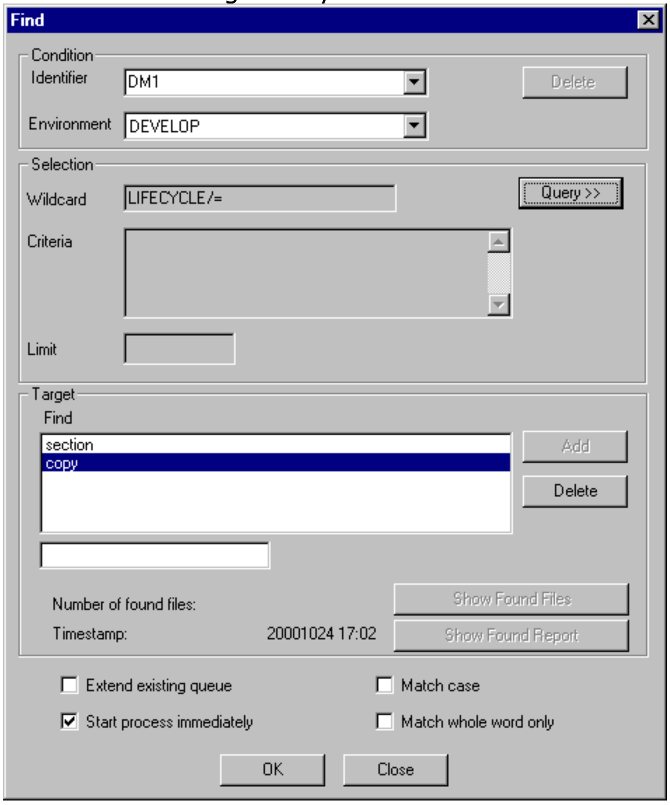
6.3 Find and Replace Utilities

The FIND and REPLACE utilities in Sure can be used to find/replace one or more targets in a group of sources.

The FIND utility is explained via an example. The procedure of the REPLACE utility is similar to the procedure of the FIND utility.

Suppose you want to find the words 'SECTION' and 'COPY' in COBOL programs.

- Click on menu-bar/Tools/Find to enter the find-utility.
  Click on button 'Query' and enter 'LIFECYCLE/=' in the Wildcard field
  Enter 'SECTION' in the find-target-entry-field and click on button 'Add'
  Enter 'COPY' in the find-target-entry-field and click on button 'Add':



Find

Condition
Identifier: DM1
Environment: DEVELOP

Selection
Wildcard: LIFECYCLE/=
Criteria:
Limit:

Target
Find:
section
copy

Number of found files:
Timestamp: 20001024 17:02

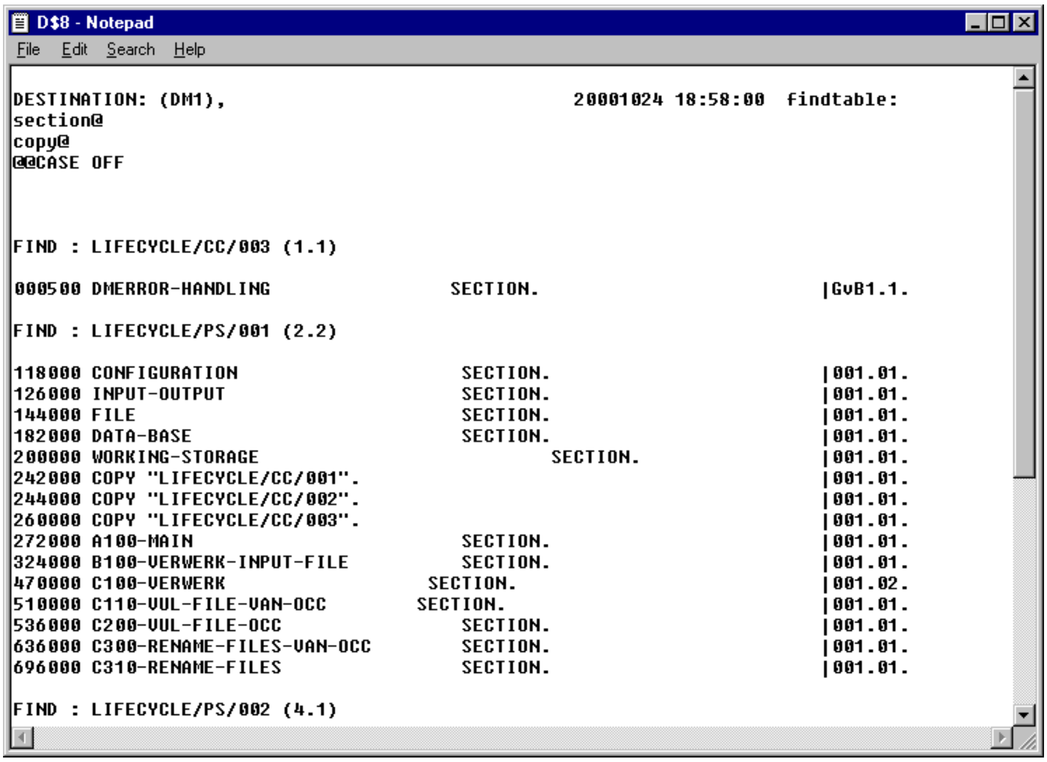
☐ Extend existing queue
☑ Start process immediately
☐ Match case
☐ Match whole word only

Wildcard 'LIFECYCLE/=' means that all files starting with that prefix are placed in the find-queue. The find-table consists of the find-targets 'COPY' and 'SECTION'. All files in the find-queue will be scanned for those targets.

- Click on OK to start the find utility on the mainframe.

The sources are scanned on the mainframe. After a short while you will get a notification that the find-request is completed:

- Open the FIND dialogue again and click now on button 'Show Found Report' to see the find-results:



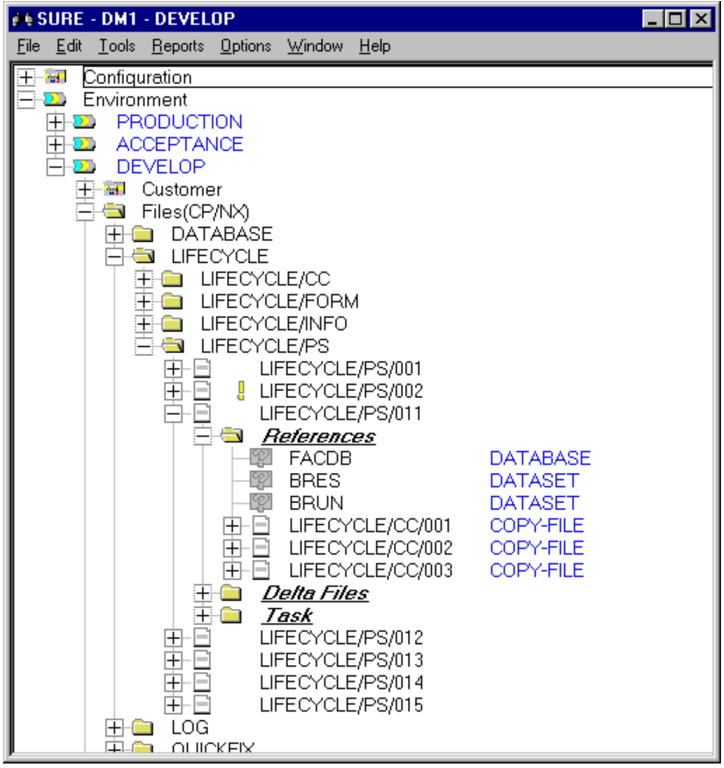
```
DESTINATION: (DM1),                              20001024 18:58:00  findtable:
section@
copy@
@@CASE OFF



FIND : LIFECYCLE/CC/003 (1.1)

000500 DMERROR-HANDLING                SECTION.                         |GvB1.1.

FIND : LIFECYCLE/PS/001 (2.2)

118000 CONFIGURATION                    SECTION.                        |001.01.
126000 INPUT-OUTPUT                     SECTION.                        |001.01.
144000 FILE                             SECTION.                        |001.01.
182000 DATA-BASE                        SECTION.                        |001.01.
200000 WORKING-STORAGE                          SECTION.                |001.01.
242000 COPY "LIFECYCLE/CC/001".                                         |001.01.
244000 COPY "LIFECYCLE/CC/002".                                         |001.01.
260000 COPY "LIFECYCLE/CC/003".                                         |001.01.
272000 A100-MAIN                        SECTION.                        |001.01.
324000 B100-VERWERK-INPUT-FILE          SECTION.                        |001.01.
470000 C100-VERWERK                  SECTION.                           |001.02.
510000 C110-VUL-FILE-VAN-OCC        SECTION.                            |001.01.
536000 C200-VUL-FILE-OCC                SECTION.                        |001.01.
636000 C300-RENAME-FILES-VAN-OCC        SECTION.                        |001.01.
696000 C310-RENAME-FILES                SECTION.                        |001.01.

FIND : LIFECYCLE/PS/002 (4.1)
```

Chapter 18 of the Sure manual gives detailed information about find and replace.

6.4 Mass compilation after a database change

Each time a new version of a source is loaded in Sure, the source will be cross examined for used datasets, sets, databases, libraries, input or output files, external procedures, etceteras. All found issues are linked to the source via relationships.

- Open folder LIFECYCLE/PS/011 and then folder 'References':

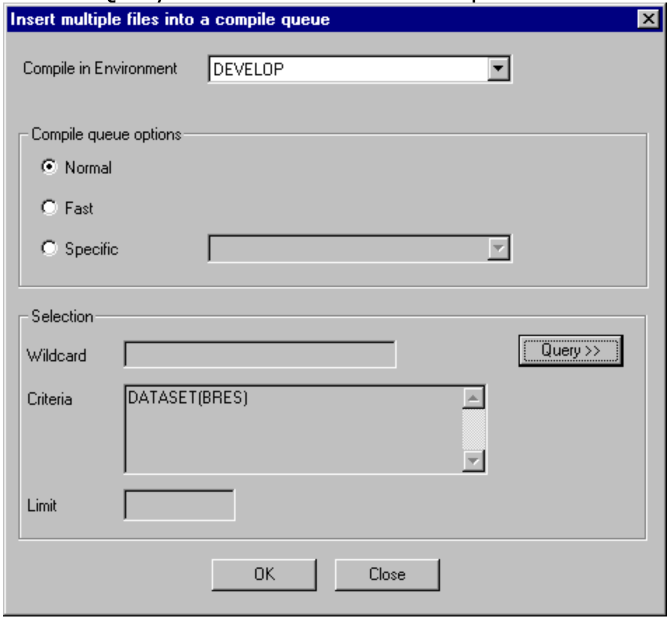


```
Configuration
Environment
  PRODUCTION
  ACCEPTANCE
  DEVELOP
    Customer
    Files(CP/NX)
      DATABASE
      LIFECYCLE
        LIFECYCLE/CC
        LIFECYCLE/FORM
        LIFECYCLE/INFO
        LIFECYCLE/PS
          LIFECYCLE/PS/001
          LIFECYCLE/PS/002
          LIFECYCLE/PS/011
            References
              FACDB               DATABASE
              BRES                DATASET
              BRUN                DATASET
              LIFECYCLE/CC/001    COPY-FILE
              LIFECYCLE/CC/002    COPY-FILE
              LIFECYCLE/CC/003    COPY-FILE
            Delta Files
            Task
          LIFECYCLE/PS/012
          LIFECYCLE/PS/013
          LIFECYCLE/PS/014
          LIFECYCLE/PS/015
      LOG
      QUICKFIX
```

The program uses database FACDB and datasets BRES and BRUN.

Sure known which datasets are used by which programs, and this information can be used in the query function to add all programs with a specific dataset into the compile-queue.
Suppose that dataset BRES is reorganised, and that all programs using BRES need to be compiled.

- Click on 'Tools'/'Compile Interface' and then on button 'Compile'.
  Select the environment where you want to fill the compile queue.
  Click on button 'Query' and enter in selection expression 'DATASET(BRES):



Insert multiple files into a compile queue

Compile in Environment: DEVELOP

Compile queue options
- ● Normal
- ○ Fast
- ○ Specific

Selection
- Wildcard:
- Criteria: DATASET(BRES)
- Limit:

This will add all files with a link to dataset BRES into the compile queue. If BRES is referenced in a copy-file, then all programs using that copy-file will be compiled.

6.5 Quick Fix Support

The flow is the demonstration is as follows:

1. Define a new task for DEVELOP
2. Modify program LIFECYCLE/PS/001 in develop.
3. Define a task for PRODUCTION which describes an urgent problem
4. Modify program LIFECYCLE/PS/001 in production.
5. Check to status of the program
6. Reprocess the quick fix from production to develop.

✷ Define as new task as described in paragraph 3.

Task Group	DEV
Description	A task to modify program LIFECYCLE/PS/001
Set option	‘I start working for this task’

✷ Check-out program LIFECYCLE/PS/001, make a small modification and check the file in.

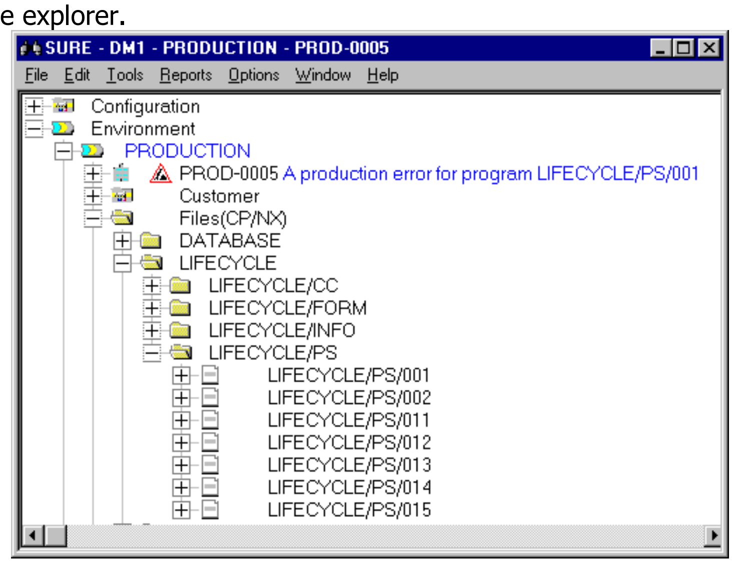
✷ Define as new task as described in paragraph 3, but now for environment PRODUCTION:

Task Group	PROD
Description	A production error in program LIFECYCLE/PS/001
Set option	‘I start working for this task’

Notice the status of the task: PRODUCTION/ASSIGNED.

✷ Open folder PRODUCTION.

The last entered task is mentioned as current task is folder PRODUCTION, and in the title bar of the Sure explorer.

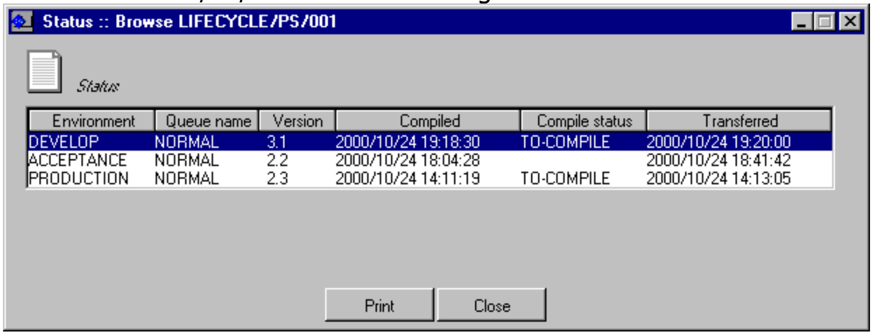


SURE - DM1 - PRODUCTION - PROD-0005

Configuration
Environment
PRODUCTION
PROD-0005 A production error for program LIFECYCLE/PS/001
Customer
Files(CP/NX)
DATABASE
LIFECYCLE
LIFECYCLE/CC
LIFECYCLE/FORM
LIFECYCLE/INFO
LIFECYCLE/PS
LIFECYCLE/PS/001
LIFECYCLE/PS/002
LIFECYCLE/PS/011
LIFECYCLE/PS/012
LIFECYCLE/PS/013
LIFECYCLE/PS/014
LIFECYCLE/PS/015

✷ Check-out the production version of program LIFECYCLE/PS/001, make a small modification and check the file in.

- Right click on LIFECYCLE/PS/001 and choose 'Log' from the menu:

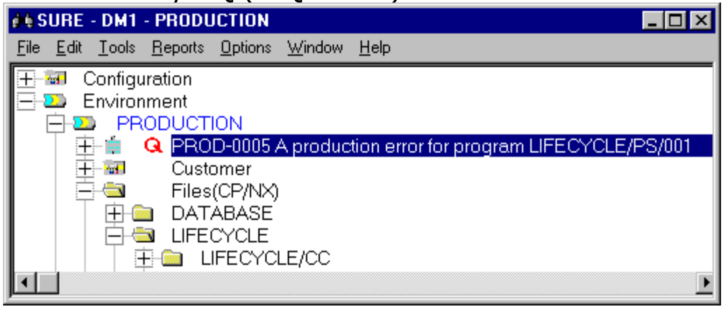


Environment	Queue name	Version	Compiled	Compile status	Transfered
DEVELOP	NORMAL	3.1	2000/10/24 19:18:30	TO-COMPILE	2000/10/24 19:20:00
ACCEPTANCE	NORMAL	2.2	2000/10/24 18:04:28		2000/10/24 18:41:42
PRODUCTION	NORMAL	2.3	2000/10/24 14:11:19	TO-COMPILE	2000/10/24 14:13:05

Originally the file had version 2.2 in all environments.
The FileVersion is changed in DEVELOP from 2.2 to 3.1
The FileVersion is changed in PRODUCTION from 2.2 to 2.3

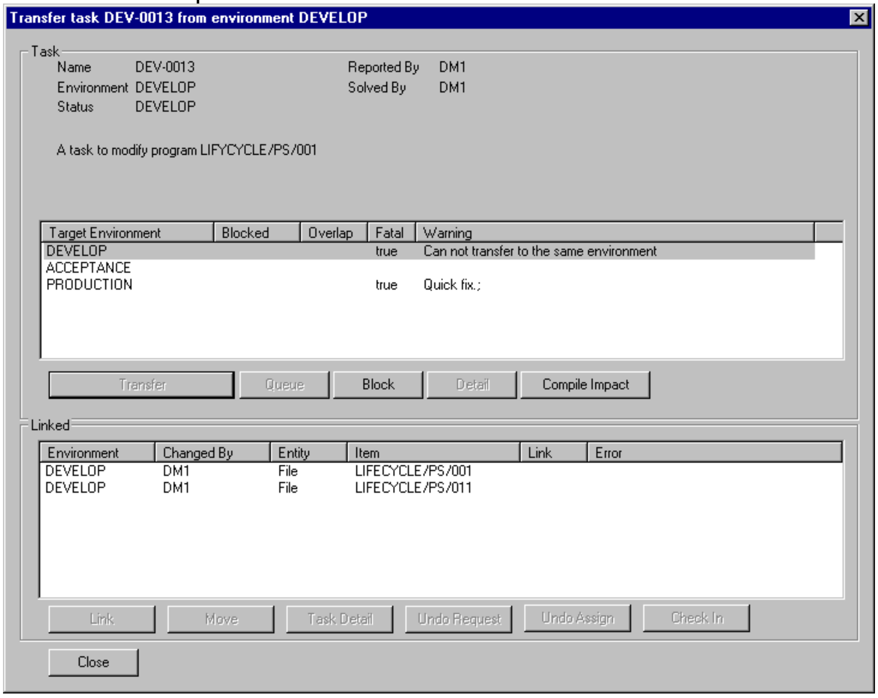
- Right-click on your current production task and choose 'Transfer' from the menu.
- Click on button 'Transfer' to freeze the task in environment PRODUCTION.

The task is not your current task anymore because it is transferred. It is not possible anymore to work on this task in the production environment.
The task is indicated by a Q (of Quick Fix):



- Close folder PRODUCTION and open folder DEVELOP

- Right click on the develop task and choose 'Transfer' from the menu:



Name DEV-0013
Environment DEVELOP
Status DEVELOP
Reported By DM1
Solved By DM1

A task to modify program LIFYCYCLE/PS/001

Target Environment	Blocked	Overlap	Fatal	Warning
DEVELOP			true	Can not transfer to the same environment
ACCEPTANCE				
PRODUCTION			true	Quick fix.;

Environment	Changed By	Entity	Item	Link	Error
DEVELOP	DM1	File	LIFECYCLE/PS/001		
DEVELOP	DM1	File	LIFECYCLE/PS/011		

It is not possible to transfer the task to production. If you click on the line with PRODUCTION then button 'Transfer' is switch off. This is because of the quick-fix that was made to program

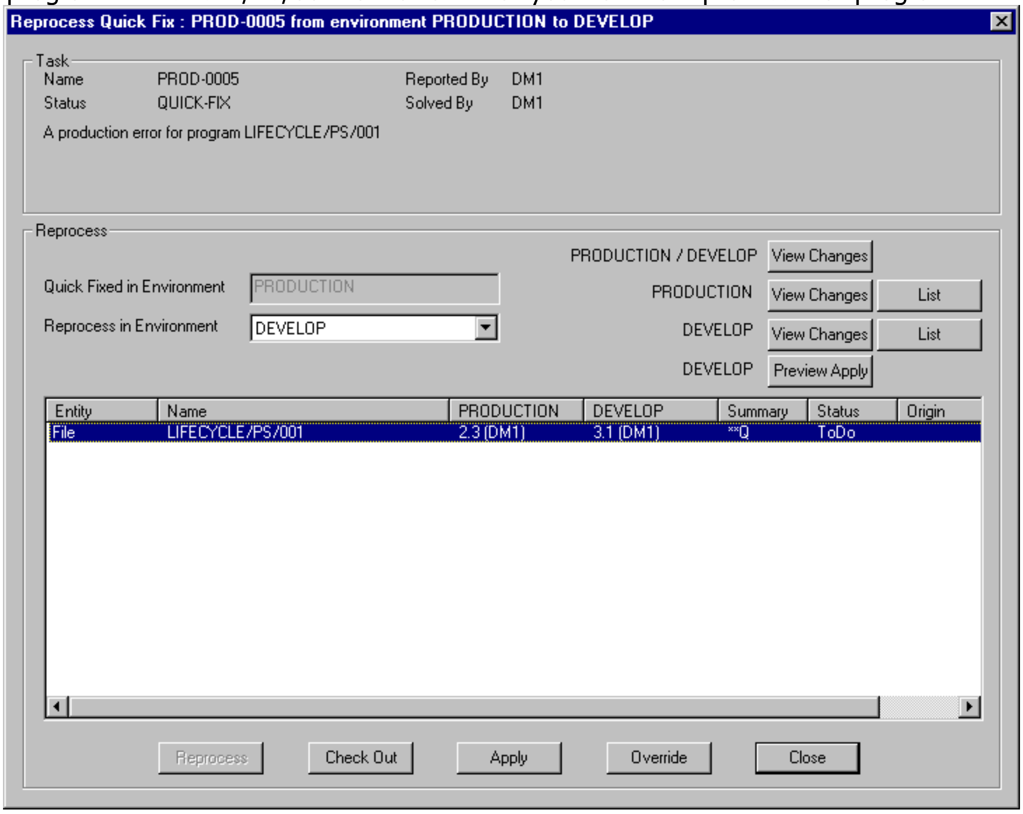
LFICYCLE/PS/001. A transfer of this task to production at this moment would remove the quick-fix patch in production.

- Open folder 'DEVELOP'/'Life Cycle'/'My tasks'/'Quick fix'.

  The production quick-fix task appears in the list.

- Right click on that task and choose 'Reprocess Quick Fix' from the menu.

- Click on program LIFECYCLE/PS/001 to indicate that you want to reprocess that program:



Reprocess Quick Fix : PROD-0005 from environment PRODUCTION to DEVELOP

Task

Name PROD-0005 Reported By DM1

Status QUICK-FIX Solved By DM1

A production error for program LIFECYCLE/PS/001

Reprocess

Quick Fixed in Environment: PRODUCTION

Reprocess in Environment: DEVELOP

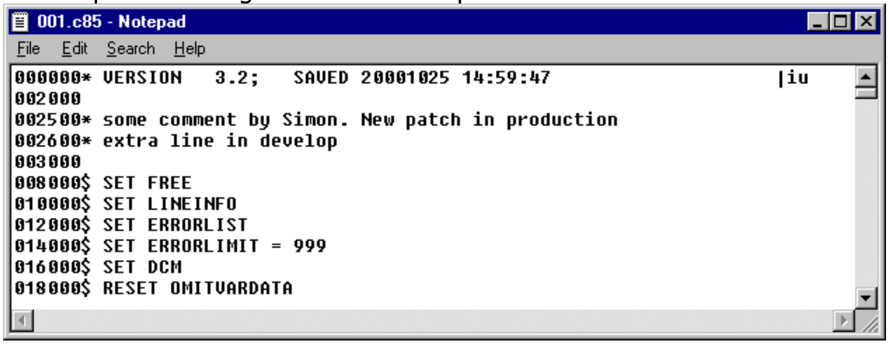
Entity	Name	PRODUCTION	DEVELOP	Summary	Status	Origin
File	LIFECYCLE/PS/001	2.3 (DM1)	3.1 (DM1)	**Q	ToDo	

  - With button 'PRODUCTION/DEVELOP [View Changes]' you see the current differences between the file in production and the file in develop.
  - With button 'PRODUCTION [View Changes]' you see the differences between the current production version of the file and the original production version (at the start of the quick fix).
  - With button 'PRODUCTION [List]' you see the production patches.
  - With button 'DEVELOP [View Changes]' you see the differences between the current develop version of the file and the original develop version (at the start of the quick fix).
  - With button 'DEVELOP' [List]' you see the develop patches
  - With button 'Preview Apply' you see the production patches merged into the current develop version of the file.
  - Button 'Reprocess' can be used if the file was not changed in develop. In that case the production version of the file is simply copied to develop.
  - Button 'Apply' can be used to merge the production patches into the develop version.
  - Button 'Override' can be used to override all checks. The production version is copied to develop and will overwrite all develop modification (if there were any).
  - Button 'Check Out' can be used to merge the quick-fix patch manually into the develop version.

- Click on button 'Apply'.

- Close dialogue 'Reprocess Quick Fix' and Right click on LIFECYCLE/PS/001 to view the file.

The production patch is merged into de develop version of the file:



```
000000* VERSION   3.2;   SAVED 20001025 14:59:47                         |iu
002000
002500* some comment by Simon. New patch in production
002600* extra line in develop
003000
008000$ SET FREE
010000$ SET LINEINFO
012000$ SET ERRORLIST
014000$ SET ERRORLIMIT = 999
016000$ SET DCM
018000$ RESET OMITVARDATA
```

Line 2500 contains the production patch
Line 2600 is the develop modification.

- Transfer the quick-fix task to production.
- Transfer the develop task to production.

7 Epilogue

This concludes the Sure Quick Start Demonstration. We thank you very much for your time and attention and, above all, your interest in the Sure ‘change & control’ system.

We hope that these examples have given you a basic understanding of Sure. Many other features of Sure (which are not mentioned in this short demonstration), are available to support the developers and change-control staff in their daily jobs.

For detail information concerning Sure consult the Sure reference manual.

If you have any additional questions about Sure, please do not hesitate to contact us.

Once again, thank you and good luck with Sure.