EDS Systems Unit

Batch Cycle Schedule Documentation

LIBRARY REFERENCE NUMBER: SYOS10001 REVISION DATE: 2000 VERSION 1.0

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EDS INDIANA HEALTH COVERAGE PROGRAMS

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Revision History

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Section 1: Introduction

Overview

The Batch Cycle Schedule documentation is intended to provide an overview of the production batch schedule in Indiana*AIM*. This manual contains the following information:

- Explanation of Autosys, the tool used by EDS to schedule jobs in Indiana*AIM*
- Job information logs (JILs) that provide key requirements of each job scheduled
- Calendars for identifying when jobs are scheduled to run
- Example of a daily schedule
- Example of a script that is executed

This information is not easy to interpret. Do not hesitate to contact a Systems Unit supervisor, at any time, for assistance.

Section 2: Autosys

Overview

Autosys is the scheduling software for UNIX systems that is used to schedule jobs in Indiana*Aim*. Each job that runs in the system is controlled by a JIL file. The JIL file contains information about a job, including the machine that it runs on, the owner of the job, when the job runs and what conditions must be met for the job to run. Several jobs may be linked together under another job, referred to as a box. This makes it easier to control and schedule a number of individual jobs in a similar manner. Scheduling of jobs is normally done on the box, rather than all of the individual jobs within the box. Scheduling may be done by specifying the days of the week or by using a calendar.

An example of a JIL file is provided below:

```
/* ----------------- PCLD350 ----------------- */
insert_job: PCLD350   job_type: b
#owner: dsibprod@dsibsun0
permission: mx,me
date_conditions: 1
days_of_week: mo,tu,we,th,fr
start_mins: 0,30
run_window: "06:00-17:45"
condition: NOTRUNNING(CLMPD350)
description: "This job will move data from the new
claims directory to the input directory"
alarm_if_fail: 1
  /* ----------------- CLMPD350 -----------------*/
  insert_job: CLMPD350   job_type: c
  box_name: PCLD350
  command: autojob.sh CLMJD350
/export/customer/dsib/prod/data/claims/newday
/export/customer/dsib/prod/data/claims/input
  machine: inprodce01
  #owner: dsibprod@dsibsun0
  permission: mx,me
  condition: SUCCESS(PCLDNDY) AND
SUCCESS(dbap_bu_dra_inaimp1) AND SUCCESS(PCLD020)
  description: "Move Claims From NEWDAY to the
INPUT directory"
  alarm_if_fail: 1
  /* ----------------- CLMPD351 ----------------- /
```

```
  insert_job: CLMPD351   job_type: c
  box_name: PCLD350
  command: autojob.sh CLMJD351
/export/customer/dsib/prod/data/claims/input/rerun
/export/customer/dsib/prod/data/claims/input
  machine: inprodce01
  #owner: dsibprod@dsibsun0
  permission: mx,me
  condition: SUCCESS(CLMPD350)
  description: "Move claims to be re-run to the
input directory"
  alarm_if_fail: 1
```

In this example, PCLD350 is an Autosys box. The PCLD350 box controls the CLMPD350 and CLMPD351 jobs. The box is scheduled to run every Monday, Tuesday, Wednesday, Thursday, and Friday. It runs at the top and bottom of the hour between 5:00 am and 5:45 pm. The last run of the day will occur at 5:30 pm. These jobs run on the inprodce01 machine and are owned by dsibprod. The CLMPD350 job does not run until the PCLDNDY, dbap_bu_dra_inaimp1 and PCLD020 jobs are all in a SUCCESS status. The CLMPD351 job does not run until the CLMPD350 job is in a SUCCESS status.

An example of another JIL file is provided below:

```
/* ----------------- PMDMCLMS ----------------- */
insert_job: PMDMCLMS   job_type: b
#owner: dsibprod@dsibsun0
permission: mx,me
date_conditions: 1
run_calendar: P1STMSAT
start_times: "08:15"
description: "Create Claim Extracts for Medstat"
alarm_if_fail: 1
```

In this example, of only the box name, the job runs based on a calendar (P1STMSAT). The calendar has specific days that the job runs. On those days, the job starts at 8:15 am. The calendar information looks like the example provided below:

```
Days in the Calendar: P1STMSAT
--------------------------------
01/01/2000 00:00
02/05/2000 00:00
03/04/2000 00:00
04/01/2000 00:00
05/06/2000 00:00
06/03/2000 00:00
```

```
07/01/2000 00:00
08/05/2000 00:00
09/02/2000 00:00
10/07/2000 00:00
11/04/2000 00:00
12/02/2000 00:00
```

Section 3: Schedules

Overview

Schedules for any given day can be generated from the information in Autosys. The resulting output looks like the example provided below:

```
                        Job Forecast Report
From:    10/29/2000   14:00:00    To:    10/30/2000  13:59:00

Job Name              Next Start         Atomic Start Conditions

PCTD210               10/29/2000  19:30  -------
CTBPD140              -------            s(CTAPD140)
  CTBPD110            -------            s(CA4PD185)
  CTBPD141            -------            s(CTAPD141)
  CB4PD185            -------            s(CA4PD185)
  CB2PD185            -------            s(CA2PD185)
  CLMPD161            -------            s(dbap_bnce_inaimp1)

PCYCSDATE             10/29/2000  18:30  -------
  AIMPS010            -------            s(AIMPS999)
  AIMPS999            -------            -------

PCLDMASS              10/30/2000  01:00  -------
  CLMPD601            -------            s(PCLD020)
                                         s(PCLRMADJ)
  CLMPD605            -------            s(CLMPD601)
  CLMPD615            -------            s(CLMPD605)
  CLMPD625            -------            s(CLMPD615)
  CLMPD635            -------            s(CLMPD625)
  CLMPD645            -------            s(CLMPD635)

PCLDNBRS              10/30/2000  07:00  -------
  CLMPDNBRS           -------            -------

PCLDNDY               10/29/2000  18:37  -------
  CLMPDNDY            -------            s(CL3PD185)
                                         s(CLMPDCYC)
  CL3PD185            -------            s(dbap_bounce_inaimp1)
  CL1PD185            -------            s(CLMPDNDY)
```

This is a partial schedule for the timeframe October 29, 2000, at 2:00 pm through October 30, 2000 at 1:59 pm. The PCLDMASS box is scheduled to run at 1:00 am on October 30, 2000. Each of the jobs

within this box has conditions that must be met before they can run. If those conditions are met, the jobs run as scheduled.

Section 4: Scripts

Overview

An example of a script to execute is provided below:

```
MDCJM002
#!/bin/csh -f
alias source 'source `source.path \!\!:1`'
#####################################################
#   Job Script: MDCJM020
#   Decription: This job executes the export
utility to copy
#               tables from the history database to
an export file.
#####################################################
source $SRCDIR/job_begin.src
if ($restart_step != "") then
        goto $restart_step
endif
#####################################################
#    js10 - Export Tables from the History database
#####################################################
js10:
setenv  JS      "js10"
jsbeg_msg.csh
setenv TEMPSYN $SYNPATH
setenv SYNPATH $DATADIR\:$SYNPATH
#####################################################
#
# Input Files
#####################################################
setenv dd_${JS}CONTROL "`syn.path
mdm00020.ctl`,old,keep,keep"
setenv AIM_PSWD  `grep  -i HIST_PSWD $AIM_CONFIG |
awk -F= 'NR == 1{print $2}'`
setenv FROM_PSWD `grep  -i HIST_PSWD
$AIM_CONFIG|awk -F= 'NR == 1{print $2}'`
setenv TO_PSWD   `grep  -i HIST_PSWD
$AIM_CONFIG|awk -F= 'NR == 1{print $2}'`
#####################################################
# Output Files
#####################################################
if ($SYSSTAT == prod) then
   setenv LOGSDIR $LOGDIR/medco.log
   setenv DATADIR $DATADIR/medco.data
```

```
else
   setenv LOGSDIR $LOGDIR/medco.log
   setenv DATADIR $DATADIR/medco.data
endif
##################################################
# Apply Overrides
##################################################
source $SRCDIR/override.src
##################################################
# Execute program
##################################################
execpgm.csh 'oraload.sh -e -m -s $dd_CONTROL'
if ($status != 0) then
        exit (-1)
endif
setenv SYNPATH $TEMPSYN
##################################################
# END OF JOB
##################################################
eoj_msg.csh $0
```

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[create index using Microsoft Word instructions]