

Tech info.(vol.3)

Wrapper를 사용한 Online 경보 스크립트

다음은 onconfig에서 ALARMPROGRAM 매개변수를 사용하는 두 가지 예를 나타낸 것입니다.

첫째 예는 둘째 예에 대한 wrapper입니다. 둘째 예는 매개변수를 사용하여 OnLine이 경보 프로그램을 전달합니다.

첫째 스크립트의 제일 처음에 나오는 완전 경로로 ALARMPROGRAM을 설정해야 할 것입니다.

```
ALARMPROGRAM /full/path/to/almprog.sh
```

```
almprog.sh
```

```
#!/bin/sh
```

```
/full/path/to/online_alarm.sh "$1" "$2" "$3" "$4" "$5" >>
```

```
/full/path/to/almprog.out 2>&1
```

```
online_alarm.sh
```

```
#!/bin/sh
```

```
#####
```

```
# Program:
```

```
# online_alarm.sh
```

```
#
```

Author:

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#

To Compile:

chmod 555 online_alarm.sh

#

To Run:

online_alarm.sh severity class-id class-msg specific-msg see-also

severity: Category of event

class-id: Class identifier

class-msg: string containing text of message

specific-msg: string containing specific information

see-also: path to a see-also file

#

```
# Description:
```

```
# This script was written to conform to the calling convention
```

```
# required for an online event alarm file according to the July 8
```

```
# 1994 document.
```

```
#
```

```
# This script sends email and pages the systems group when necessary.
```

```
#
```

```
#####
```

```
if
```

```
  (`test $# -ne 5`) then
```

```
    echo "online_alarm.sh requires 5 arguments"
```

```
    exit 1
```

```
fi
```

```
# Get the arguments themselves
```

```
severity=$1
```

```
class_id=$2
```

```
class_msg=$3
```

```
specific_msg=$4
```

```
see_also=$5
```

```
datevar=`date`
```

```
if (`test $severity -ge 3`) then
```

```
# Severity ATTENTION or better – send email
```

```
echo "====="
```

```
echo "Reasonably severe OnLine event: "
```

```
echo "Severity: $severity"
```

```
echo "Class Id: $class_id"
```

```
echo "Class msg: $class_msg"
```

```
echo "Specific msg: $specific_msg"
```

```
echo "See Also: $see_also"
```

```
echo $datevar
```

```
# An event of 3 or greater importance has occurred; send email
```

```
case $severity in
```

```
3) sev_msg="ATTENTION LEVEL ONLINE EVENT";
```

```
;;
```

```
4) sev_msg="EMERGENCY LEVEL ONLINE EVENT";
```

```
;;
```

```
5) sev_msg="FATAL LEVEL ONLINE EVENT";
```

```
;;
```

```
*) sev_msg="UNKNOWN LEVEL ONLINE EVENT - $severity - ";
```

```
;;
```

```
esac
```

```
case $class_id in
```

```
1)
```

```
class_text="Table failure: $class_msg"
```

```
::
```

```
2)
```

```
class_text="Index failure: $class_msg"
```

```
::
```

```
3)
```

```
class_text="Blob failure: $class_msg"
```

```
::
```

```
4)
```

```
class_text="Chunk is off-line, mirror is active: $class_msg"
```

```
::
```

```
5)
```

class_text="DBSpace is off-line: \$class_msg"

::

6)

class_text="Internal Subsystem Failure: \$class_msg"

::

7)

class_text="OnLine Initialization failure"

::

8)

class_text="Physical Restore failure"

::

9)

class_text="Physical Recovery failure"

::

10)

class_text="Logical Recovery failure"

::

11)

class_text="Cannot Open Chunk: \$class_msg"

::

12)

class_text="Cannot Open DBSpace: \$class_msg"

::

13)

class_text="Performance Improvement possible"

::

14)

class_text="Database failure: \$class_msg"

::

15)

class_text="DR failure"

::

16)

class_text="Archive completed: \$class_msg"

::

17)

```
class_text="Archive aborted: $class_msg"
```

```
::
```

18)

```
class_text="Log Backup Completed: $class_msg"
```

```
::
```

19)

```
class_text="Log Backup Aborted: $class_msg"
```

```
::
```

20)

```
class_text="Logical Logs are FULL"
```

```
# Handle special case for full logs
```

```
/usr/ucb/mail -s "$sev_msg" 3871683@skymail.com <<!
```

```
$specific_msg -- $datevar
```

```
!
```

```
::
```

21)

```
class_text="OnLine resource overflow: $class_msg"
```

```
::
```

22)

```
class_text="Long Transaction Detected"
```

```
::
```

```
esac
```

```
# Send email to those who may be interested
```

```
/usr/ucb/mail -s "$sev_msg" mp-sm mp-rt <<!
```


retn2 varchar (255) default null,

case3 varchar (255) default null,

retn3 varchar (255) default null,

case4 varchar (255) default null,

retn4 varchar (255) default null,

case5 varchar (255) default null,

retn5 varchar (255) default null,

case6 varchar (255) default null,

retn6 varchar (255) default null,

case7 varchar (255) default null,

retn7 varchar (255) default null,

case8 varchar (255) default null,

retn8 varchar (255) default null,

case9 varchar (255) default null,

retn9 varchar (255) default null,

defilt varchar (255) default null)

returning varchar (255);

if basis = case1 then

return retn1;

end if;

if case2 is null then { no default value available. }

return null;

else

if retn2 is null then { case2 is default value. }

return case2;

else { matching pattern found. }

if basis = case2 then

```
return retn2;
```

```
end if;
```

```
end if;
```

```
end if;
```

```
if case3 is null then { no default value available. }
```

```
return null;
```

```
else
```

```
if retn3 is null then { case3 is default value. }
```

```
return case3;
```

```
else { matching pattern found. }
```

```
if basis = case3 then
```

```
return retn3;
```

```
end if;
```

end if;

end if;

if case4 is null then { no default value available. }

return null;

else

if retn4 is null then { case4 is default value. }

return case4;

else { matching pattern found. }

if basis = case4 then

return retn4;

end if;

end if;

end if;

```
if case5 is null then { no default value available. }
```

```
    return null;
```

```
else
```

```
    if retn5 is null then { case5 is default value. }
```

```
        return case5;
```

```
    else { matching pattern found. }
```

```
        if basis = case5 then
```

```
            return retn5;
```

```
        end if;
```

```
    end if;
```

```
end if;
```

```
if case6 is null then { no default value available. }
```

```
    return null;
```

else

if retn6 is null then { case6 is default value. }

return case6;

else { matching pattern found. }

if basis = case6 then

return retn6;

end if;

end if;

end if;

if case7 is null then { no default value available. }

return null;

else

if retn7 is null then { case7 is default value. }

return case7;


```
else { matching pattern found. }
```

```
    if basis = case7 then
```

```
        return retn7;
```

```
    end if;
```

```
end if;
```

```
end if;
```

```
if case8 is null then { no default value available. }
```

```
    return null;
```

```
else
```

```
    if retn8 is null then { case8 is default value. }
```

```
        return case8;
```

```
    else { matching pattern found. }
```

```
        if basis = case8 then
```

```
return retn8;
```

```
end if;
```

```
end if;
```

```
end if;
```

```
if case9 is null then { no default value available. }
```

```
return null;
```

```
else
```

```
if retn9 is null then { case9 is default value. }
```

```
return case9;
```

```
else { matching pattern found. }
```

```
if basis = case9 then
```

```
return retn9;
```

```
end if;
```

```
end if;
```

```
end if;
```

```
if deflt is null then
```

```
    return null;
```

```
end if;
```

```
return deflt;
```

```
end procedure;
```

평일과 달의 마지막 날을 계산하기 위한 4GL 함수

다음은 4GL의 날짜 관련 함수 2가지입니다.

`last_day()` - 현재 날짜의 이전이나 이후의 달 수를 입력하면 해당되는 달의 마지막 날을 리턴합니다.

`week_days()` - 주어진 두 날짜 사이의 평일 수를 리턴합니다. 작업 일수를 계산하기 위하여 휴일 테이블을 참조할 수도 있습니다.

```
#-----#
```

```
FUNCTION last_day(mths)
```

```
# Arguments: Counter +/-0 of months
```

Purpose: Determine the last day of the month mths months

ahead/back

eg: last_day(0) RETURNS last day this month

last_day(1) RETURNS last day next month

last_day(-12) RETURNS last day this month a year ago

Returns: DATE

#-----#

DEFINE mths SMALLINT

DEFINE mm,dd,yy SMALLINT

DEFINE dte DATE

get the month and year of today

LET mm = MONTH(TODAY)

LET yy = YEAR(TODAY)

```
# get the month and year of the month mths months from now
```

```
WHILE mths != 0
```

```
  IF mths < 0 THEN
```

```
    # going backward in time
```

```
    IF mm = 1 THEN
```

```
      # get December last year
```

```
      LET mm = 12
```

```
      LET yy = yy - 1
```

```
    ELSE
```

```
      LET mm = mm - 1
```

```
    END IF
```

```
    LET mths = mths + 1
```

```
  ELSE
```

```
    # going forward in time
```

```
IF mm = 12 THEN
```

```
    # get January next year
```

```
    LET mm = 1
```

```
    LET yy = yy + 1
```

```
ELSE
```

```
    LET mm = mm + 1
```

```
END IF
```

```
LET mths = mths - 1
```

```
END IF
```

```
END WHILE
```

```
# now we need to get the month after the one we want
```

```
IF mm = 12 THEN
```

```
    LET mm = 1
```

```
LET yy = yy + 1
```

```
ELSE
```

```
LET mm = mm + 1
```

```
END IF
```

```
# set dte to 1st day of the month we set up
```

```
LET dte = MDY(mm,1,yy)
```

```
# decrement by 1
```

```
LET dte = dte - 1
```

```
# Viola! dte is now set to the last day of chosen month
```

```
RETURN dte
```

```
END FUNCTION
```

```
# last_day(mths)
```

```
#-----#
```

```
FUNCTION week_days(beg_date,end_date)
```

```
# Arguments: beginning and ending date
```

```
# Purpose: Determine the number of week days (Mon-Fri)
```

```
#           for the date range (inclusive)
```

```
#           including an optional hook to a holiday table
```

```
# Returns: SMALLINT, number of week days
```

```
#-----#
```

```
DEFINE beg_date    DATE
```

```
DEFINE end_date    DATE
```

```
DEFINE tst_date    DATE
```

```
DEFINE weekdays    SMALLINT
```



```
## OPTIONAL: the variable below assumes a holiday table with a list
```

```
## of holidays that should not be considered weekdays
```

```
#DEFINE lholi_date LIKE holiday.holi_date
```

```
LET weekdays = NULL
```

```
IF beg_date IS NULL OR end_date IS NULL OR end_date < beg_date THEN
```

```
  # this is illegal
```

```
  RETURN weekdays
```

```
END IF
```

```
LET weekdays = 0
```

```
LET tst_date = beg_date
```

```
WHILE tst_date <= end_date
```

```
  # use the built-in WEEKDAY function to determine if this is
```

```
# Monday (1) through Friday (5)
```

```
IF WEEKDAY(tst_date) > 0 AND WEEKDAY(tst_date) < 6 THEN
```

```
    LET weekdays = weekdays + 1
```

```
END IF
```

```
LET tst_date = tst_date + 1 UNITS DAY
```

```
END WHILE
```

```
## OPTIONAL: if you have a holiday table, work this sort of thing in
```

```
#DECLARE c_holiday CURSOR FOR
```

```
#    SELECT holi_date FROM holiday
```

```
#    WHERE holi_date BETWEEN beg_date AND end_date
```

```
#
```

```
#FOREACH c_holiday INTO lholi_date
```

```
#    # is this date is a weekday, we need to decrement
```

```
# IF WEEKDAY(lholi_date) > 0 AND WEEKDAY(lholi_date) < 6 THEN
```

```
#     LET weekdays = weekdays - 1
```

```
# END IF
```

```
#END FOREACH
```

```
RETURN weekdays
```

```
END FUNCTION
```

```
# week_days(beg_date,end_date)
```