Suprtool 5.4.01 for HP e3000:

Change Notice

by Robelle Solutions Technology Inc.

Contents

Table of Contents

Introducing Suprtool Version 5.4.01

Introduction

Suprtool provides fast access to your data on the HP e3000. With Suprtool, you can perform many necessary DP functions easily, with just a few simple commands. At Robelle we are constantly working on your enhancement requests so that we can include them every year when we release an updated version of Suprtool. include them every year when we release an updated version of Suprtool.

Highlights in Suprtool 5.4.01

* Suprtool did not print out a warning message when attempting to combine sort with output,else.

Highlights in Suprtool 5.4

* Bradmark's DBGeneral can produce Jumbo datasets that are a single chunk, Suprtool did not handle these single chunk master jumbo datasets properly as the last block calculation was done only after opening the last chunk itself. We have adjusted the logic in making sure the calculation is done for this case earlier. Adager does not create these single chunk jumbo datasets. There is an un-documented $control directive in dbschema called $forcejumbo, which will produce one of these single chunk jumbos so we are supporting it in Suprtool 5.3.11.

* The Output command has been enhanced to accept the new verb "else", which when invoked it will write out the records that do not qualify and write them to an external file.

* Suprtool did not properly clear the data field information from a table at the end of a task.

* Suprtool did not properly zero out a packed field target when an table entry was not found when extracting data from a table.

Highlights in Previous Versions

* STExport now has Set ZonedFix On, this setting can be used to zero out any zoned fields that were unable to be converted from zoned to byte and typically have a "?" in the result. This is often caused by hidden characters or bad data.

- Suprtool's $edit function now accepts the colon character as a delimiter character in order for edit masks for time fields.

- Suprtool's if command would not allow a field name starting with SPECIAL if it was on the right side of the equation.

- The $edit function would replace a numeric with a colon if the edit mask had a different number of decimal places than the item had and the last number to be rounded was a nine.

- STExport did not handle files with 256 fields in an SD file.

- Suprtool can now execute the if and extract expression $stddate($days(a) + 10) in one task.

- Suprtool now supports stand-alone zoned decimal keys.

- Suprlink has had internal changes in terms of how it manages its data structures.

- If the data item used in data portion of a $lookup function was 8 bytes or greater in length, type display or byte, the if command would fail with an arithmetic stack error.

- Set VarsubDebug has been added to print the line after variable substitution has occurred.

- Suprtool now reads NM KSAM files with MR NOBUF if an IF command is specified.

- STExport XML command did not convert compound items (2)..(n) properly.

- Multiple literal compares now work in the if command

- If $lookup can now return the data portion loaded into a table to use in a comparison.

- STExport HTML command did not calculate the maximum record size properly in some cases.

- Suprtools prefetch default value has been changed from 2 to 0.

Known Problems

Set Itemlock does not work in one particular case.

Compatibility

Suprtool/iX is compatible with MPE V, MPE XL, and MPE/iX, including MPE/iX 6.5, 7.0 and MPE/iX 7.5.

Suprtools default prefetch value has been changed from 2 to zero.

CPU Serial Number and CPU Name (HPSUSAN & HPCPUNAME)

Suprtool and its associated products run only on CPUs whose serial numbers have been encoded ("showvar hpsusan" on MPE/iX). They also may be encoded with your HPCPUNAME values. If it fails to run and you get an "invalid HPCPUNAME" or "invalid HPSUSAN" error message, contact Robelle for assistance.

Documentation

The user manual contains the full description of all the Suprtool suite of products including Dbedit, Suprlink, STExport and Suprtool2, as well as usage tips and commands for each. The manuals are up-to-date with all the latest changes. To see only the changes in the latest version, see the "What's New" section of the manual, or see the change notice.

You can download our manuals and change notices in various formats and you can order printed (hardcopy) manuals from our web site at:

http://www.robelle.com/library/manuals/

Installation

Overview

We have two types of Installations, Tape and Download. We provide links to the Installation instructions on our web site for each type of Install.

Ecometry Users

Users of the Ecometry application need to use the installation instructions supplied by Ecometry Corporation. Those instructions have extra steps for updating the Ecometry code accounts.

You will find the Ecometry version of these instructions at http://www.robelle.com/ecometry/

Types of installations, tape, download combined qedit and suprtool tape.

Installation Instructions

If you received a production release tape from Robelle, then you can install using the instructions on this web page:

http://www.robelle.com/support/install/tape/stprod.html

If you downloaded the Suprtool production release from our web site then the instructions can be found here for the ftp download method:

http://www.robelle.com/downloads/install-stprod-ftp.html

and here for the WRQ download method:

http://www.robelle.com/downloads/install-stprod-wrq.html

Installation Assistance

If you have any questions about the upgrade process or run into any problems, please call us. Technical support is available on weekdays from 8 a.m. to 4 p.m. Pacific time at 800.453.8970 or you can e-mail your question to support@robelle.com.

Enhancements in Version 5.4

Introduction

Suprtool is constantly being updated with new features. The following section describes the new enhancements to Suprtool since Suprtool 5.3.

Get Command

Bradmark's Adager can produce Jumbo datasets that are a single chunk, Suprtool did not handle these single chunk master jumbo datasets properly as the last block calculation was done only after opening the last chunk itself. We have adjusted the logic in making sure the calculation is done for this case earlier. Adager does not create these single chunk jumbo datasets. There is an un-documented $control directive in dbschema called $forcejumbo, which will produce one of these single chunk jumbos so we are supporting it in Suprtool 5.3.11.

Output Command

The Output command has been enhanced to accept the new verb "else", which when invoked it will write out the records that do not qualify and write them to an external file.

Consider the following task:

```
base mydb
get customers
if custno >= "50A"
out mycusts,link,else
xeq
```

Suprtool will create two files one called mycusts and another called else which will be a temporary file. This works for flat files, Image (via get and chain) and KSAM files. The temporary ELSE file will NOT prompt if there is a duplicate. It will simply purge the file prior to creating the new temporary file. You can of course use file equations to re-direct the output to another named temporary file but the user is responsible for insuring that the file equated filename doesn't exist so that the write operation will work.

You cannot combine output ,else with the num or key options. In this case Suprtool will tell you it is ignoring the ,else operation. You cannot combine output,else with any of the dup or nodup options or the duplicate command. Suprtool will generate an error in this case.

Enhancements in Previous Versions

Introduction

Suprtool is constantly being updated with new features.

ZonedFix

STExport now has Set ZonedFix On, this setting can be used to zero out any zoned fields that were unable to be converted from zoned to byte and typically have a "?" in the result. This is often caused by hidden characters or bad data.

$stddate($days(a))

Suprtool now allows for the $days function to be nested in the $stddate function.

```
ext a=$stddate($days(a) + 1)
list
xeq
>IN TEST.GROUP.ACCOUNT (0) >OUT $NULL (0)
A             = 20080319
```

TPI-keys

Suprtool now supports stand-alone Zoned-decimal TPI-keys, for Omnidex and Superdex. Previously Suprtool only supported byte type keys. Suprtool now supports stand-alone "Z" type keys, Suprtool's form command will show the keys that it can support via the chain command.

The length of a key is returned by dbinfo-833 and Suprtool will report in the form command the length of a stand-alone key. (SI-PRODUCT-NO is the path that is now supported) Superdex has a variable that impacts the length that is returned for a given key, and that is SICOGNOS. Suprtool will account for the length difference on the chain command but will show the unadjusted length. Normally Superdexs dbinfo-833 would show a length of 12 for a Zoned-decimal tpi-key with a length of 8, if SICOGNOS is set to 1, then Superdex will return 8.

```
form d-inventory

Database: STORE.SUPRTPIS.GREEN  TPI: SUPERDEX (010566) 4.2.11.2

    D-INVENTORY      Detail                   Set# 4
      Entry:                     Offset
          BIN-NO             J1     1
          LAST-SHIP-DATE     J2     3
          ON-HAND-QTY        J2     7
          PRODUCT-NO         Z8    11  (M-PRODUCT)
                                       <<TPI>>
          SUPPLIER-NO        Z8    19  (!M-SUPPLIER)
          UNIT-COST          P8    27
          ITEM-DESC1         X20   31  <<TPI>>
          ITEM-DESC2         X20   51
          ITEM-DESC3         X20   71
          ITEM-DESC4         X20   91
    Capacity: 464 (8)  Entries: 13  Highwater: 13  Bytes: 110

    Additional Third-Party Indexes:
          SI-PRODUCT-NO      Z8     B
          SI-ITEM-DESC1      X20    B
          SI-ITEM-DESC1234   X80    B
          SHAD               X10    B
```

VarsubDebug

Suprtool, STExport and Suprlink now have a setting called Set VarsubDebug on
which will print out the line after the variable substitution has occurred. This setting
only works if Set Varsub is on and Set VarsubDebug is on.

```
setvar outfile &
:"/GREEN/SUPRTEST/filename90123456789012345678901234567890123456789012345678901"
:run suprtool.pub.robelle
SUPRTOOL/iX/Copyright Robelle Solutions Technology Inc. 1981-2007.
(Version 5.0.11 Internal)  TUE, OCT 30, 2007,  2:58 PM  Type H for he
>set varsub on
>set varsubdebug on
>in file1sd.suprtest
vd:in file1sd.suprtest
>output !outfile,link,temp
vd:output /GREEN/SUPRTEST/filename90123456789012345678901234567890123
vd:2345678901,link,temp
```

The output is formatted into 74 byte chunks and printed with a preceding "vd:" so
the "substituted" line is clear.

If $lookup

Suprtool's IF command is now able to use the "data" loaded into a Table. The
$lookup function will return the data value from the table to compare against another
field or literal.

```
In file1sd
Table mytable,char-field,data,tabfile,data(id-field)
If $lookup(mytable,char-field,id-field) = int-field
```

So what Suprtool will do in this case is read a record, lookup the record in the table and retrieve the data item in the table. If Suprtool does NOT find an entry in the table, a zero will be returned if the data type is numeric and spaces will be returned if it is a byte type.

So using the case above, if no entry is found in the table, zero is returned, and if int-field is equal to zero, then the record will qualify.

If you don't want to have any values returned from the table lookup, you just preface the if with a standard lookup.

```
>get     ord-details
>table   cust-table, cust-no, file, custlist,data(state-code)
>if      $lookup(cust-table,cust-no) and &
         $lookup(cust-table, cust-no, state-code) = state-code
>output orders
>xeq
```

When using $lookup to return data, the $lookup must always be on then left side of the expression. If not Suprtool will stop with an error:

```
>if id-field=$lookup(mytable,char-field,id-field)
Error:  $lookup in this context (data comparison) must be on left side
```

Multiple literal comparison

Suprtool can now do multiple literal comparisons, previously Suprtool was only able to compare two sets of literals.

```
If "a" = "a" and "b" = "b"
If "a" <> "b" and "b" <> "c"
```

KSAM and If command

For the last two production versions Suprtool was slowed down for reading of NM KSAM files if an IF command was specified due to a bug in MPE. Suprtool now reads NM KSAM files in MR NOBUF mode again in all cases.

Bugs Fixed

Bugs Fixed In Suprtool 5.4.01

Output, Else. Suprtool would not print a warning when output,else was specified during a sort operation.

Bugs Fixed In Suprtool 5.3.11

GET Command. The Get command would get too many records if the dataset was a single chunk jumbo dataset. Only Dbgeneral and dbschemas $forcejumbo can make these single chunk datasets.

Table Command. Suprtool did not properly clear the data field information from a table at the end of a task.

Extract from Table. Suprtool did not properly zero out a packed field target when an table entry was not found when extracting data from a table and the Packed field was P12 or higher.

Bugs Fixed In Suprtool 5.2

SPECIAL. The IF command would fail with and error if a field started with the SPECIAL keyword and if the field was on the right side of the equation.

Bugs Fixed In Suprtool 5.1.02

$Edit Function. The $edit function would replace a numeric with a colon if the edit mask had a different number of decimal places than the item had and the last number to be rounded was a nine.