Suprtool 6.8 for HP e3000:

Change Notice

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Introducing Suprtool Version 6.8

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.

Highlights in Suprtool 6.8

- The $edit function has a new edit mask option whereby an “H” in any position of an alpha edit-mask. Whatever data resides where the H edit-mask character is located will be replaced by the character stored in the Set Command, Set EditHide.
- Suprtool and all the MPE bonus products have been tested with Jump/3000.
- Suprtool/AMXW is now available on Linux.
- Suprtool/Open has a new licensing model available. The new model allows Suprtool to work out of the box when a VM is spun up.
- Suprtool’s Dynamic Loading of Eloquence/Oracle now works with Dynatrace oneagent,pre-loaded via the LD_PRELOAD Linux feature.

Highlights in Suprtool 6.7

- The $split function has been improved with two set commands set quotechar and set smartsplit. Set quotechar aids in removing quotes from byte type csv fields. Set Smartsplit, in conjunction with set quotechar detects and ignores the split character inside of quotes.
- Support for Eloquence 8.4 on HP-UX and Linux platforms.
- Dynamic Loading of Eloquence routines have been improved.

Highlights in Suprtool 6.6

- STExport/UX/Open now supports Extended SD information.
- STexport has improved buffer handling, and the amount of overhead has been significantly reduced.

- Stexport has new features in the Json command. Namely, Indent and Header and Trailer options to add data to the output file.
- The Oracle Add command parsing has been improved. It would fail if there were more than 62000 tables in the given database/ownername.
- The $CHANGE function has been improved to update data directly in the case of an UPDATE.

Highlights in Suprtool 6.5

- A new function in Suprtool called $change, can change one string to another, in a byte type field.

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.

Ksam64 files were not assumed to be Self-describing like CM KSAM and KSAMXL files when it was the input file and had labels.

A warning will print if a non-regular SD file is loaded into a Table with the data option.

An error will print if an extract command attempts to reference data when loaded from table that in turn was loaded when using a non-regular SD file, such as KSAM/XL, KSAM64 and CM KSAM.

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.

Installation Instructions

All Robelle software is installed via download from our website. 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 289.480.1060 or you can e-mail your question to support@robelle.com.

Enhancements in Version 6.8

Introduction

Suprtool is constantly being updated with new features. The following section describes the new enhancements to Suprtool since Suprtool 6.7.

$Edit Function

The $Edit function now allows for an H placement character, whereby the position of the H, will allow for the replacement of the data with the contents of the character stored in Set EditHide “X”.

Set EditHide

The Set EditHide command allows you to set a character to replace a placeholder H, character in a given edit mask. This is for Alpha editmasks only.

The commands:

```
>set EditHide “X”  {defines X to be placed where an H in an editmask}
```

Examples

You can Hide or replace certain characters by position in an alpha edit mask as shown below:

```
>in file1sd
>set edithide " "
>ext char-field=$edit(char-field,"XXHXX")
>LIST
>XEQ
>IN FILE1SD.NEIL.GREEN (0) >OUT $NULL (0)
CHAR-FIELD      = 11 11

>IN FILE1SD.NEIL.GREEN (1) >OUT $NULL (1)
CHAR-FIELD      = 22 22
```

Suprtool/AMXW Open

Suprtool for AMXW is now available on Linux. For those users who have been using Suprtool for AMXW on HP-UX, we have ported the source over to Linux and we are working with a customer and Freche Legacy on testing.

New Licensing Model

Suprtool / Open has a new licensing model for Linux environments allowing for spin ups of new machines and have Suprtool automatically licensed and work directly with no application of codes. The versions and patching is managed by robelle. Email support@robelle.com for more information. This is meant for multi-machine environments.

Dynamic Loading Issue with Dynatrace

In Suprtool 6.7, we added more options for dynamically loading certain libraries. This, however, caused a problem with Dynatrace oneagent, which is software that observes what an application does. This is loaded in front of any application by the **LD_PRELOAD** feature in Linux.

CoPilot defines the LD_PRELOAD feature as such:

```
LD_PRELOAD is an environment variable in Linux that instructs the
dynamic linker (ld.so / ld-linux.so) to load one or more shared
libraries before any others when executing a program. This allows
overriding or interposing functions from standard libraries without
modifying the target binary.
When set, the specified libraries are loaded first, and any symbols
(functions, variables) they define take precedence over those in
subsequently loaded libraries, including libc.so.
```

This issue was fixed in Suprtool 6.7.10 and is in this release, Suprtool 6.8.

Jump/3000

Suprtool and all Robelle products have been tested and will continue to be tested with Jump/3000, the 2028 date solution for MPE. For more information, please email support@robelle.com for more information. We are keen to hear more about your HP 3000 2028 mitigation strategies.

Enhancements in Version 6.7

Introduction

Suprtool is constantly being updated with new features. The following section describes the new enhancements to Suprtool since Suprtool 6.6

$SPLIT Function

The $Split function has two new options in how data is processed, specifically Set QuoteChar and Set SmartSplit, which work together to process "byte-type" fields in a csv file. Set quotechar, defines what quote character was used to in creating the CSV file so that Suprtools split function will know when it is in quotes. When the Split function knows this, it will automatically remove the quotes.

Set QuoteChar

The Set QuoteChar, tells the Suprtool Split function what Quote character surrounds byte type fields in a CSV file. If you need to define the double quote as the Quote character you define by surrounding the double quote with single quotes and vice versa.

The commands:

```
   $set QuoteChar '"'  {define double quote as quote character}
   $Set QuoteChar "'"  {define single quote as quote character}
```

Set SmartSplit

Set SmartSplit On, in conjunction with Set QuoteChar, will allow the Split Function to ignore any occurrence of a Split Character inside the defined Quote Character.

Impact of Set QuoteChar '"' and Set SmartSplit On.

```
>Set QuoteChar '"'
>Set SmartSplit On
```

Examples

When doing a typical $split operation, you may not get the results you're looking for using the default method:

```
>in alana
>def record,1,80
>def name,1,30
>def bytenum,1,6
>ext name=$split(record,first,",")
>ext bytenum=$trim($split(record,",",1,","))
>list
>xeq

>IN ALANA.NEIL.GREEN (0) >OUT $NULL (0)
NAME            = "Neil Armstrong"
BYTENUM         = "1234"

>IN ALANA.NEIL.GREEN (1) >OUT $NULL (1)
NAME            = "Peanut
BYTENUM         = dadog"
```

With Set Smartsplit on and defining the Quote character, $split can do some extra work for you. Specifically, with Smartsplit on, the function can pass over the defined split character and treat it like text. The quotechar tells smartsplit when your in data that is byte AND what character remove.

```
>set smartsplit on
>set quotechar '"'
>in alana
>def record,1,80
>def name,1,30
>def bytenum,1,6
>ext name=$split(record,first,",")
>ext bytenum=$trim($split(record,",",1,","))
>list
>xeq
>IN ALANA.NEIL.GREEN (0) >OUT $NULL (0)
NAME            = Neil Armstrong
BYTENUM         = 1234

>IN ALANA.NEIL.GREEN (1) >OUT $NULL (1)
NAME            = Peanut,dadog
BYTENUM         = 4567
```

This helps the $SPLIT function do more work and often eliminate another pass thru the data.

Enhancements in Version 6.6

Introduction

Suprtool is constantly being updated with new features. The following section describes the new enhancements to Suprtool since Suprtool 6.5

STExport

STExport, HP-UX and Open versions now supports extended SD information. STExport will use the SD information if the input self-describing file was created with Set SDExtname On with Suprtool, and Set Sdextname is set to on inside STExport.

STExport, all versions, has improved buffer handling and the amount over overhead has been significantly reduced.

STExport, has three new features in the JSON command. Specifically, INDENT, HEADER and TRAILER.

INDENT

The Indent command allows you to specify an integer, in which STExport will indent the data portion of the JSON output the number of spaces specified.

The Indent option does not impact the Header or Tail lines or the Object Lines.

The commands:

```
$in jsonin.stexptst
$json oneperline indent 12
$json Object "This is a test"
$out *
$xeq
```

Will produce data that looks as such:

```
{"This is a test":
         [{"CHAR-FIELD":"11111",
         "INT-FIELD":1111,
         "DBL-FIELD":11111,
         "PACKED-FIELD":11111,
         "PACKED*-FIELD":11111,
         "QUAD-FIELD":11111,
         "ID-FIELD":1,
         "LOGICAL-FIELD":1111,
         "DBLLOG-FIELD":11111,
         "ZONED-FIELD":11111
         }]
}
```

Header and Tail

The Header and Tail options of the JSON command, allow you to maintain two files, whereby the contents of the files are added to the Json stream, at the beginning and end of the output file.

The header and tail files are created to be fixed length files with a record size of 256 bytes.

The options of the Header and Tail command are as follows:

```
JSON HEADER CREATE <filename>
JSON HEADER ADD "This is a string"
JSON HEADER DELETE <filename>
JSON HEADER SETFNAME <filename>
```

There four options for the Header and Tail commands tell STExport to do the following:

Create <filename>

The create action opens the specified file name, if the file exists, it will erase the contents of the file.

ADD "string"

Allows you to add lines to the specified Header or Tail file, by specifying a string to add the the Head or Tail file.

Delete <filename>

Deletes the specified filename, for either the Header or Tail File specified.

SetFname

Sets the name of the header or Tail file and confirms that it exists.

Examples

The following STExport code shows using the new features and the impact on the Output.

```
input jsonin
JSON oneperline indent 12 header create file24h tail create file24t
JSON TAIL ADD "        }"
JSON TAIL ADD "}"
JSON HEADER ADD '{'
JSON HEADER ADD '  "Recreation_Membership_File": {'
JSON HEADER ADD '       "description": "Recusers_File_Ver_1",'
JSON HEADER ADD '       "fileType": "ACTIVITIES",'
JSON HEADER ADD '       "DataType": "Membership",'
JSON HEADER ADD '       "fullFileMember": "Y",'
JSON HEADER ADD '       "MemberActivity":'
output file24a
exit
```

would produce the following:

```
{
 "Recreation_Membership_File": {
      "description": "Recusers_File_Ver_1",
      "fileType": "ACTIVITIES",
      "DataType": "Membership",
      "fullFileMember": "Y",
      "MemberActivity":
           [{"CHAR-FIELD":"11111",
           "INT-FIELD":1111,
           "DBL-FIELD":11111,
           "PACKED-FIELD":11111,
           "PACKED*-FIELD":11111,
           "QUAD-FIELD":11111,
           "ID-FIELD":1,
           "LOGICAL-FIELD":1111,
           "DBLLOG-FIELD":11111,
           "ZONED-FIELD":11111
           }]
       }
}
```

$CHANGE Function

The $CHANGE function has been improved to update data directly in the case of an UPDATE.

Enhancements in Version 6.5

Introduction

Suprtool is constantly being updated with new features. The following section describes the new enhancements to Suprtool since Suprtool 6.4

Suprtools $change function returns a string that was changed by the $change function which, takes three parameters. The first is the field, that contains the data you want to change, the from string and the to string, which is to be enclosed in quotes.

Sample Extract Usage:

```
extract Name=$change(name,"Neal","Neil")
```

In the example above the first string of Neal, is the from string, and the to string is Neil.

If you need to change a phrase with a double quote then you can enclosed the strings in a single quote:

```
extract xml_input=$change(xml_input,'"LP"','LP')
```

The primary use of the $change function is to update fields using the extract command, however, you can use it in the if command, however, the field you are changing will appear in the output file as the changed record. Note the examples below:

```
if $change(name,"Neal","Neil")="Neil"
if ("Neil"=$change(name,"Neal","Neil"))
```

A reminder that if you start the if equation with the constant string first, you need to encase the complete equation in brackets.

Bugs Fixed

Bugs Fixed in Suprtool 5.7.11

Set CleanChar. Set CleanChar to a single character, after a Set CleanChar "<null>" would not come into effect due to the special null flag not being reset. This was in both Suprtool and STExport.

Bugs Fixed in Suprtool 5.7.10

Table, Data and Hold. Suprtool would lose track of Table data field information, on tables held with the hold option in subsequent tasks.