Subject: MCR-10045, Fix \texttt{\textgreater t\textless admin.ec} to support consolidated volume dumps

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\textbf{Introduction}

\texttt{\textgreater t\textless admin.ec} is installed into \texttt{\textless sc1\textgreater} during cold boot. It provides the implementation of the Initializer “\textless x\textgreater” commands. One of these commands is “\textless x vcons\textgreater”, which starts a consolidated volume dump. MCR8135 made obsolete the \texttt{-incr\_skip\_count N} control argument to the \texttt{consolidated\_volume\_dump} command, but admin.ec still uses it. Consequently, you cannot start a consolidated volume dump using an “\textless x\textgreater” command.

The manual that documents \texttt{consolidated\_volume\_dump}, GB64-00, still documents the \texttt{-incr\_skip\_count N} control argument. The info segment is up-to-date. It may well be that we simply don’t have the latest version of GB64.

Update: There has existed a GB64 errata since MR12.5 in \texttt{\textgreater doc\textless info\textgreater gb64.errata.info} that does direct the reader to remove the \texttt{-incr\_skip\_count N} control argument and add the replacement control arguments.

\textbf{Problem}

The issue is very simple, the \texttt{-incr\_skip\_count N} control argument to the \texttt{consolidated\_volume\_dump} command is no longer supported. \texttt{\textgreater t\textless admin.ec} implements the “\textless x vcons\textgreater” command this way:

\begin{verbatim}
&label consolidated\_volume
&label vcons
&
& exec\_com to allow the operators to easily run consolidated volume dumping.
&
& ARG1 = the operator’s initials
&
& if [not [exists argument &r2]] &then &goto error
sc\_command login Volume\_Dumper Daemon vcons
pause 10
sc\_command r vcons consolidated\_volume\_dump -control sys\_vols -operator &r2 -error\_on
-auto -incr\_skip\_count 2 &rf3
&quit
\end{verbatim}

If you invoke “\textless x vcons ejs\textgreater” you get the following error:

\begin{verbatim}
1527 vcons consolidated\_volume\_dump:
1527 vcons Creating new control seg
>user\_dir\_dir\textgreater Daemon\textgreater Volume\_Dumper\textgreater sys\_vols\textgreater cons\_control
1527 vcons dmpr\_report\_: Error file dmpr\_err\_cons.01/17/18.1527 created
1527 vcons dmpr\_arg\_reader\_: 1527 vcons The \texttt{-incr\_skip\_count} function has been replaced by \texttt{-purge\_volume\_log}.:
Invalid argument.
1527 vcons dmpr\_arg\_reader\_: \texttt{-incr\_skip\_count}: Invalid argument.
1527 vcons r 15:27 0.191 11
\end{verbatim}
and no consolidated volume dump occurs.

## Proposed Changes

Replacing the command line with the following:

```
sc_command r vcons consolidated_volume_dump -control sys_vols -operator &r2 -error_on -auto -purge_volume_log &rf3
```

fixes the problem. According to the code (dmp_arg_reader_.pl1), -incr_skip_count N was replaced by -purge_volume_log:

```c
else if arg = "-incr_skip_count" then do;
    call dmpr_report_$error_output (error_table_$bad_arg, myname, "The -incr_skip_count function has been replaced by -purge_volume_log.", arg);
    goto bad_arg;
end;
```

Note: The `-purge_volume_log` uses the count set by 'set_volume_log', and the default value used for the count is 2

The history comments in this program include:

```
3) change(89-08-31,GWMay), approve(89-10-03,MCR8135),
    audit(89-10-04,Beattie), install(89-10-10,MR12.3-1089):
    Disabled the -incr_skip_count argument. Used the value
dmpr_data_.incr_skip_count as a switch for a new control argument set.
    Added -purge_volume_log, -pvl, -no_purge_volume_log, -npvl arguments.
```

## Testing of the Change

Testing of this change involves invoking “x vcons ejs” to make sure that a consolidated volume dump occurs correctly.

## Bug Reference


## Documentation

An errata already exists for GB64 and the info segment for the consolidated_volume_dump command is already up-to-date so no further documentation changes are needed.

## Version History

<table>
<thead>
<tr>
<th>Date</th>
<th>Revision</th>
<th>Author</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-01-17</td>
<td>1.0</td>
<td>Eric Swenson</td>
<td>Initial version of MCR.</td>
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<tr>
<td>2018-01-23</td>
<td>1.1</td>
<td>Eric Swenson</td>
<td>Added note about the value (2) of N specified as the old -incr_skip_count argument.</td>
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