

new/usr/src/tools/scripts/wx2hg.sh

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*****
10188 Tue Jul 29 17:40:29 2008
new/usr/src/tools/scripts/wx2hg.sh
6731044 wx2hg should deal better with nested repositories
*****
1 #!/usr/bin/ksh
2 #
3 # CDDL HEADER START
4 #
5 # The contents of this file are subject to the terms of the
6 # Common Development and Distribution License (the "License").
7 # You may not use this file except in compliance with the License.
8 #
9 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 # or http://www.opensolaris.org/os/licensing.
11 # See the License for the specific language governing permissions
12 # and limitations under the License.
13 #
14 # When distributing Covered Code, include this CDDL HEADER in each
15 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 # If applicable, add the following below this CDDL HEADER, with the
17 # fields enclosed by brackets "[]" replaced with your own identifying
18 # information: Portions Copyright [yyyy] [name of copyright owner]
19 #
20 # CDDL HEADER END
21 #
22 #
23 #
24 # Copyright 2008 Sun Microsystems, Inc. All rights reserved.
25 # Use is subject to license terms.
26 #
27 # ident "@(#)wx2hg.sh 1.4 08/07/29 SMI"
27 # ident "%Z%M% %I% %E% SMI"
28 #
29 #
30 #
31 # Convert a wx-based workspace to Mercurial.
32 #
33 #
34 usage="wx2hg [-u] [-r hg_rev] [-t hg_ws] codemgr_ws"
35 #
36 #
37 # If "yes", then give some hints about cleanup and rerunning after a
38 # failure.
39 #
40 can_retry=no
41 tail=/usr/xpg4/bin/tail
42 #
43 function has_hg_twin {
44     [[ -n "$primary_twin" ]]
45 }
46 #
47 # unchanged portion omitted
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65 function clone_twins {
66     ws="$1"
67     rev="$2"
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new/usr/src/tools/scripts/wx2hg.sh

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78 hg log -l 1 -r $hg_rev > /dev/null 2>1)
79 if (( $? != 0 )); then
80     warn "Unable to clone $primary_twin/$dir"
81     rev_warning=y
82     continue
83 fi
84 echo "Cloning from $primary_twin/$dir"
85 echo "to $ws/$dir"
86 set -x
87 hg clone "$primary_twin"/$dir "$ws"/$dir
88 set +x
89 done
90 #
91 [[ $rev_warning = "n" ]] || fail \
92 "revision $hgrev was not present in all workspaces.\n" \
93 "When using -r with nested repositories, you should specify a tag\n" \
94 "name that is valid in each workspace."
95 }
96 #
97 #
98 # Command-line processing, sanity checks, and setup.
99 #
100 #
101 [[ -n $(whence workspace) ]] ||
102 fail "workspace command not found; please check PATH."
103 #
104 # do a wx update?
105 do_update=yes
106 #
107 #
108 # Mercurial workspace to populate. Default is to create, in the same
109 # directory as the Teamware workspace, a new Mercurial workspace cloned
110 # from the hg_twin of the Teamware parent.
111 #
112 hg_ws=""
113 #
114 #
115 # Revision in the Mercurial workspace to apply the changes to.
116 # Default is to get the most recent revision (tip), thus avoiding
117 # the need for a merge unless overridden by the caller using -r.
118 #
119 hg_rev="tip"
120 #
121 while getopts r:t:u opt; do
122     case $opt in
123         r) hg_rev="$OPTARG";;
124         t) hg_ws="$OPTARG";;
125         u) do_update=no;;
126         ?) print -u2 "usage: $usage"; exit 1;;
127         esac
128 done
129 shift $((OPTIND - 1))
130 #
131 if [[ $# -ne 1 ]]; then
132     print -u2 "usage: $usage"
133     exit 1
134 fi
135 #
136 CODEMGR_WS="$1"
137 [[ "$CODEMGR_WS" = /* ]] || CODEMGR_WS=$(pwd)/$CODEMGR_WS
138 export CODEMGR_WS
139 #
140 if [[ -n "$hg_ws" ]]; then
141     if [[ ! -d "$hg_ws" || ! -d "$hg_ws/.hg" ]]; then
142         fail "$hg_ws is not a Mercurial workspace."
143     fi
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144     [[ "$hg_ws" = /* ]] || hg_ws="$(pwd)/$hg_ws"
145 fi

147 [[ -d "$CODEMGR_WS" ]] || fail "$CODEMGR_WS does not exist."
148 cd "$CODEMGR_WS"

150 codemgr_parent=$(workspace parent)
151 [[ -n "$codemgr_parent" ]] || \
152     fail "$CODEMGR_WS is not a Teamware workspace or does not have a parent."
153 [[ -d "$codemgr_parent" ]] || fail "parent ($codemgr_parent) doesn't exist."

155 primary_twin=""
156 nested_twins=""
157 twinfile="$codemgr_parent/Codemgr_wsdata/hg_twin
158 if [[ -f $twinfile ]]; then
159     primary_twin=$(head -1 $twinfile)
160     nested_twins=$(($tail -n +2 $twinfile | sort -r)
158     nested_twins=$(($tail -n +2 $twinfile)
161 fi

163 if has_hg_twin; then
164     echo "Teamware parent $codemgr_parent has twin $primary_twin"
165     [[ -n "$nested_twins" ]] &&
166     echo "and nested twins $nested_twins"
167 fi

169 #
170 # Do this check before time-consuming operations like creating
171 # the target repo.
172 #
173 his=$(find Codemgr_wsdata -name history -mtime -1)
174 if [[ -z "$his" ]]; then
175     warn "history file is more than one day old; do you need to" \
176         "bringover from $codemgr_parent?"
177 fi

179 # Less time-consuming than cloning

181 if [[ ! -d wx ]]; then
182     print "Initializing wx..."
183     wx init -ft
184 else
185     if [[ "$do_update" = yes ]]; then
186         print "Updating wx state..."
187         wx update
188     fi
189 fi

191 wx outchk

193 out_files=$(wx out)
194 active_files=$(wx list)

196 if [[ ! -z "$out_files" ]]; then
197     fail "wx2hg will only migrate checked-in files;" \
198         "please check in these files with wx ci and try again"
199 fi

201 # more time-consuming than wx update and wx outchk

203 if [[ -z "$hg_ws" ]]; then
204     ws=$(basename $(pwd))
205     hg_ws=$(dirname $(pwd))/"$ws-hg"
206 fi

208 if [[ -d "$hg_ws" ]]; then

```

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209     echo "Updating preexisting Mercurial workspace $hg_ws to $hg_rev\n"
210     (cd "$hg_ws"; hg update -C $hg_rev) ||
211     fail "hg update $hg_rev failed for $hg_ws"
212     if [[ -n "$nested_twins" ]]; then
213         update_warning=n
214         for dir in $nested_twins; do
215             if [[ ! -d "$hg_ws/$dir" ]]; then
216                 warn "$hg_ws/$dir does not exist"
217                 update_warning=y
218             fi
219             echo "Updating preexisting nested workspace " \
220                 "$hg_ws/$dir to $hg_rev\n"
221             (cd "$hg_ws/$dir"; hg update -C $hg_rev)
222             if (( $? != 0 )); then
223                 warn "hg update $hg_rev failed for $hg_ws/$dir"
224                 update_warning=y
225             fi
226             continue
227         done

229     [[ $update_warning = "n" ]] ||
230     fail "When using an existing Mercurial workspace with\n" \
231         "nested repositories, all nested repositories must\n" \
232         "already exist in the existing workspace. If also\n" \
233         "specifying -r, then the specified hg_rev must be\n" \
234         "valid in all nested repositories."
235     fi
236 else
237     if has_hg_twin; then
238         clone_twins "$hg_ws" $hg_rev
239     else
240         fail "$codemgr_parent is not recognized as a gate;" \
241             "please provide a Mercurial workspace (-t hg_ws)" \
242             "that matches it."
243     fi
244 fi

246 can_retry=yes

248 # Make sure hg_ws is an absolute path
249 [[ "$hg_ws" = /* ]] || hg_ws="$(pwd)/$hg_ws"

252 # usage: which_repo filename
253 function which_repo {
254     typeset f=$1

256     for r in $nested_twins; do
257         if [ ${f##$r/} != $f ]; then
258             echo ${f##$r/} $r
259             return
260         fi
261     done

263     echo $f "."
264 }
_____unchanged_portion_omitted_____

```

new/usr/src/tools/scripts/wx2hg.1

1

```
*****
7531 Tue Jul 29 17:40:30 2008
new/usr/src/tools/scripts/wx2hg.1
6731044 wx2hg should deal better with nested repositories
*****
1  \." CDDL HEADER START
2  \."
3  \." The contents of this file are subject to the terms of the
4  \." Common Development and Distribution License (the "License").
5  \." You may not use this file except in compliance with the License.
6  \."
7  \." You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
8  \." or http://www.opensolaris.org/os/licensing.
9  \." See the License for the specific language governing permissions
10 \." and limitations under the License.
11 \."
12 \." When distributing Covered Code, include this CDDL HEADER in each
13 \." file and include the License file at usr/src/OPENSOLARIS.LICENSE.
14 \." If applicable, add the following below this CDDL HEADER, with the
15 \." fields enclosed by brackets "[" replaced with your own identifying
16 \." information: Portions Copyright [yyyy] [name of copyright owner]
17 \."
18 \." CDDL HEADER END
19 \."
20 \." Copyright 2008 Sun Microsystems, Inc. All rights reserved.
21 \." Use is subject to license terms.
22 \."
23 \." ident      "@(#)wx2hg.1    1.3    08/07/29 SMI"
24 .TH wx2hg 1 "29 Jul 2008"
23 \." ident      "%Z%M% %I%    %E% SMI"
24 .TH wx2hg 1 "6 Jul 2008"
25 .SH NAME
26 .I wx2hg
27 \- Convert a wx-managed workspace to Mercurial.
28 .SH SYNOPSIS
29 .B wx2hg
30 [ \fB\-u\fR ]
31 [ \fB\-r\fR \fIhg_rev\fR ]
32 [ \fB\-t\fR \fIhg_ws\fR ]
33 \fItw_ws\fR
34 .LP
35 .SH DESCRIPTION
36 .I wx2hg
37 takes a Teamware workspace
38 and converts it to a workspace that is managed by
39 Mercurial. It is aimed at OS/Net projects that were started under
40 Teamware but which expect to deliver into a
41 Mercurial gate. As such, it assumes the following usage model:
42 .LP
43 Suppose that you have a project workspace, which has some changes
44 relative to its parent workspace.
45 .I wx2hg
46 checks for the existence of, and creates if necessary,
47 a Mercurial workspace called
48 \fItw_ws\fR\~hg that is in sync with the Mercurial twin
49 of its parent workspace.
50 Then it applies the changes from your project workspace to this Mercurial
51 workspace.
52 You can review the changes
53 before committing them. Note that any
54 intermediate deltas will be lost; note also that your child workspace
55 must be up-to-date with respect to the parent.
56 .LP
57 .I wx2hg
58 uses
59 .BR wx (1)
```

new/usr/src/tools/scripts/wx2hg.1

2

```
60 to determine which files have been renamed or altered. If your
61 workspace is not already controlled by
62 .BR wx (1),
63 .I wx2hg
64 puts it under
65 .BR wx (1)
66 control. If your workspace is already under
67 .BR wx (1)
68 control,
69 .I wx2hg
70 runs
71 .BR wx update
72 to ensure that the
73 .BR wx (1)
74 state files are up-to-date. This step can take a while. If you are
75 sure that
76 .BR wx (1)
77 already has the right list of files, you can skip this step by using
78 the
79 .B \-u
80 option.
81 .LP
82 You can use the
83 .B \-t
84 .I hg_ws
85 option to name the Mercurial target workspace, rather than having
86 .I wx2hg
87 default to using \fItw_ws\fR\~hg.
88 .LP
89 .I wx2hg
90 checks the Mercurial workspace against the Teamware parent. If it
91 finds a discrepancy, it assumes that the Teamware parent corresponds
92 to an older revision within the mercurial workspace. You must rerun
93 .I wx2hg
94 and use the
95 .B \-r
96 .I hg_rev
97 option to specify that revision. (See below for more discussion on
98 recovery from errors.)
99 With the
100 .B \-r
101 option,
102 .I wx2hg
103 updates the Mercurial working directory
104 to that older revision and then applies your
105 changes. You will need to use mercurial to merge your changes with
106 later changes in the workspace before pushing your changes to a parent
107 workspace.
108 .LP
109 .I wx2hg
110 exits with an error if it detects a rename conflict.
111 .LP
112 If
113 .I wx2hg
114 exits with an error, you can discard any changes made prior to the
115 error, then use the
116 .B \-t
117 option to reuse the workspace. To discard changes made prior to the
118 error, use this command:
119 .LP
120 .RS 5
121 hg \-R \fIhg_ws\fR update \-C
122 .RE
123 .LP
124 .SH OPTIONS
125 .IP "\fB\-r\fR \fIhg_rev\fR" 10
```

```

126 Use
127 .I hg_rev
128 as the Mercurial changeset that corresponds to the point
129 in time at which your teamware workspace was synchronized with its parent.
130 If you don't have any nested repositories, you may specify
131 You may specify
131 .I hg_rev
132 as a changeset id or a Mercurial tag. If you have nested repositories,
133 like usr/closed in ON, then you should specify a Mercurial tag common to
134 both (or all) repositories. This tag may be local (ie a local tag that you
135 create yourself using \fIhg tag -l\fR) or version controlled (ie a tag
136 that the gatekeepers created, such as \fionnv_96\fR).
137 If you use
138 .I hg_rev
139 without specifying \fIhg_ws\fR, then the tags must resolve correctly
140 in the Mercurial twin(s) of your Teamware parent.
141 If you use
142 .I hg_rev
143 in conjunction with \fIhg_ws\fR, then the tags must resolve correctly
144 in your existing Mercurial repositories.
145 as a changeset id or a Mercurial tag.
145 .IP "\fB\~t\fR \fIhg_ws\fR" 10
146 Use an existing Mercurial workspace as the target, rather than
147 creating one. If you use an existing workspace, you must also create any
148 nested repositories (like usr/closed) before running wx2hg.
149 creating one.
149 .IP
150 If omitted,
151 .I tw_ws
152 must be a child of /ws/onnv-clone, and
153 .I wx2hg
154 will create the Mercurial workspace \fItw_ws\fR\~hg.
155 .IP \fB\~u\fR
156 Skip the "wx update" step if the workspace is already under
157 .BR wx (1)
158 control.
159 .LP
160 .SH SEE ALSO
161 .BR hg "(1), " wx (1)
162 .LP
163 .SH DIAGNOSTICS
164 .LP
165 wx2hg:
166 .I tw_parent
167 is not recognized as a gate; please provide a Mercurial workspace (-t
168 hg_ws) that matches it.
169 .LP
170 .RS 5
171 This means that
172 .I tw_parent
173 does not contain a Codemgr_wsdata/hg_twin file pointing at its mercurial
174 equivalent. If necessary, you may reparent
175 .I tw_ws
176 to a workspace that specifies an hg_twin
177 and rerun
178 .IR wx2hg .
179 Otherwise, you must use the
180 .B \~t
181 option to specify an existing
182 Mercurial workspace whose contents matches the parent of
183 .IR tw_ws .
184 .RE
185 .LP
186 teamware parent ... doesn't match its mercurial twin
187 .LP
188 .RS 5

```

```

189 .I wx2hg
190 detected an unexpected difference between the Teamware parent and the
191 Mercurial workspace. This likely means that the parent of your
192 teamware workspace is not in synch with the mercurial parent. In that
193 case, ask the maintainer of the parent workspace to resynchronize
194 them, or use
195 .B \~r
196 to specify a revision of the Mercurial workspace that matches the
197 Teamware parent.
198 .RE
199 .LP
200 wx2hg will only migrate checked-in files; please check in these files with wx
201 ci and try again
202 .LP
203 .RS 5
204 In order to minimize spurious conflicts due to SCCS keyword
205 substitution,
206 .I wx2hg
207 only migrates changes in checked-in files. Please check in your
208 changes with
209 .I wx delget
210 prior to migration.
211 .RE
212 .SH FILES
213 .IP \fItw_ws\fR/Codemgr_wsdata/hg_twin
214 is read by wx2hg from the parent workspace of the teamware workspace
215 being converted in order to find the mercurial equivalent of that
216 workspace. The first line of hg_twin contains the URL of the
217 mercurial equivalent workspace. Since a single teamware workspace may
218 be split into multiple mercurial repositories, the 2nd and subsequent
219 lines of the file contain the relative paths within the first
220 repository of additional child repositories. The maintainer of a gate
221 being converted is responsible for creating this file to allow
222 teamware children of the teamware gate to be converted into mercurial
223 children of the mercurial gate.
224 .RE
225 .SH BUGS
226 If a file is both renamed and updated, doing an "hg diff" in the
227 Mercurial workspace will
228 show the entire (new) contents of the file, not just the updates.
229 .LP
230 There is no attempt at automated recovery in case of a rename
231 conflict.
232 .LP
233 If a Teamware workspace is split into multiple Mercurial twin
234 workspaces (as is the case with the ON closed source tree), then
235 Teamware filemv commands that result in moving across repository
236 boundaries will result in file removal from the source repository and
237 file addition to the destination repository. So a webrev will not
238 show changes to such files, merely entire old and new contents.

```