

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

1

```
*****
10814 Thu Sep 13 22:58:40 2018
new/usr/src/tools/scripts/bldenv.sh
9831 bldenv should adapt to nightly debug settings
*****
1 #!/usr/bin/ksh93
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.
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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 (c) 1999, 2010, Oracle and/or its affiliates. All rights reserved.
25 # Copyright 2011 Nexenta Systems, Inc. All rights reserved.
26 # Copyright 2014 Garrett D'Amore <garrett@damore.org>
27 # Copyright 2018 Joyent, Inc.
28 #
29 # Uses supplied "env" file, based on /opt/onbld/etc/env, to set shell variables
30 # before spawning a shell for doing a release-style builds interactively
31 # and incrementally.
32 #
33 #
34 function fatal_error
35 {
36     print -u2 "${progname}: $"
37     exit 1
38 }
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```

133 typeset DF_build=false
134 )

136 typeset progname="$(basename -- "${0}")"

138 OPTIND=1
139 SUFFIX="-nd"

140 while getopts -a "${progname}" "${USAGE}" OPT ; do
141     case ${OPT} in
142         c) flags.c=true ;;
143         +c) flags.c=false ;;
144         f) flags.f=true ;;
145         +f) flags.f=false ;;
146         d) flags.d=true ; flags.d_set=true ;;
147         +d) flags.d=false ; flags.d_set=true ;;
148         t) flags.t=true ;;
149         +t) flags.t=false ;;
150         \?) usage ;;
151     esac
152 done
153 shift $((OPTIND-1))

155 # test that the path to the environment-setting file was given
156 if (( $# < 1 )) ; then
157     usage
158 fi

160 # force locale to C
161 export \
162     LANG=C \
163     LC_ALL=C \
164     LC_COLLATE=C \
165     LC_CTYPE=C \
166     LC_MESSAGES=C \
167     LC_MONETARY=C \
168     LC_NUMERIC=C \
169     LC_TIME=C

171 # clear environment variables we know to be bad for the build
172 unset \
173     LD_OPTIONS \
174     LD_LIBRARY_PATH \
175     LD_AUDIT \
176     LD_BIND_NOW \
177     LD_BREADTH \
178     LD_CONFIG \
179     LD_DEBUG \
180     LD_FLAGS \
181     LD_LIBRARY_PATH_64 \
182     LD_NOVERSION \
183     LD_ORIGIN \
184     LD_LOADFLTR \
185     LD_NOAUXFLTR \
186     LD_NOCONFIG \
187     LD_NODIRCONFIG \
188     LD_NOOBJALTER \
189     LD_PRELOAD \
190     LD_PROFILE \
191     CONFIG \
192     GROUP \
193     OWNER \
194     REMOTE \
195     ENV \

```

```

196     ARCH \
197     CLASSPATH

199 #
200 # Setup environment variables
201 #
202 if [[ -f /etc/nightly.conf ]]; then
203     source /etc/nightly.conf
204 fi

206 if [[ -f "$1" ]]; then
207     if [[ "$1" == */* ]]; then
208         source "$1"
209     else
210         source ".$1"
211     fi
212 else
213     if [[ -f "/opt/onbld/env/$1" ]]; then
214         source "/opt/onbld/env/$1"
215     else
216         printf \
217             'Cannot find env file as either %s or /opt/onbld/env/%s\n' \
218             "$1" "$1"
219         exit 1
220     fi
221 fi
222 shift

224 # contents of stdenv.sh inserted after next line:
225 # STDENV_START
226 # STDENV_END

228 # Check if we have sufficient data to continue...
229 [[ -v CODEMGR_WS ]] || fatal_error "Error: Variable CODEMGR_WS not set."
230 [[ -d "${CODEMGR_WS}" ]] || fatal_error "Error: ${CODEMGR_WS} is not a directory"
231 [[ -f "${CODEMGR_WS}/usr/src/Makefile" ]] || fatal_error "Error: ${CODEMGR_WS}/u

233 # must match the getopts in nightly.sh
234 OPTIND=1
235 NIGHTLY_OPTIONS="-${NIGHTLY_OPTIONS#-}"
236 while getopts '+0ABCdDFGIIlMmNnpRrtUuwW' FLAG $NIGHTLY_OPTIONS
237 do
238     case "$FLAG" in
239         t) flags.t=true ;;
240         +t) flags.t=false ;;
241         F) flags.DF_build=true ;;
242         *) ;;
243     esac
244 done

246 # DEBUG is a little bit complicated. First, bldenv -d/+d over-rides
247 # the env file. Otherwise, we'll default to DEBUG iff we are *not*
248 # building non-DEBUG bits at all.
249 if [ "${flags.d_set}" != "true" ] && "${flags.DF_build}"; then
250     flags.d=true
251 fi

253 POUND_SIGN="#"
254 # have we set RELEASE_DATE in our env file?
255 if [ -z "$RELEASE_DATE" ]; then
256     RELEASE_DATE=$(LC_ALL=C date +%B %Y)
257 fi
258 BUILD_DATE=$(LC_ALL=C date +%Y-%b-%d)
259 BASEWSDIR=$(basename -- "${CODEMGR_WS}")
260 DEV_CM="\@(#)SunOS Internal Development: $LOGNAME $BUILD_DATE [${BASEWSDIR}]"
261 export DEV_CM RELEASE_DATE POUND_SIGN

```

```

263 print 'Build type is \c'
264 if ${flags.d} ; then
265     print 'DEBUG'
266     SUFFIX=""
267     unset RELEASE_BUILD
268     unset EXTRA_OPTIONS
269     unset EXTRA_CFLAGS
270 else
271     # default is a non-DEBUG build
272     print 'non-DEBUG'
273     SUFFIX="-nd"
274     export RELEASE_BUILD=
275     unset EXTRA_OPTIONS
276     unset EXTRA_CFLAGS
277 fi

279 # update build-type variables
280 PKGARCHIVE=${PKGARCHIVE}${SUFFIX}

282 # Set PATH for a build
283 PATH="/opt/onbld/bin:/opt/onbld/bin/${MACH}:/opt/SUNWspro/bin:/usr/ccs/bin:/usr/"
284 if [[ "${SUNWSPRO}" != "" ]]; then
285     export PATH="${SUNWSPRO}/bin:$PATH"
286 fi

288 if [[ -n "${MAKE}" ]]; then
289     if [[ -x "${MAKE}" ]]; then
290         export PATH="$(dirname -- "${MAKE}"):$PATH"
291     else
292         print "\$MAKE (${MAKE}) is not a valid executable"
293         exit 1
294     fi
295 fi

297 TOOLS="${SRC}/tools"
298 TOOLS_PROTO="${TOOLS}/proto/root_${MACH}-nd" ; export TOOLS_PROTO

300 if "${flags.t}" ; then
301     export ONBLD_TOOLS="${ONBLD_TOOLS:=${TOOLS_PROTO}/opt/onbld/"

303     export STABS="${TOOLS_PROTO}/opt/onbld/bin/${MACH}/stabs"
304     export CTFSTABS="${TOOLS_PROTO}/opt/onbld/bin/${MACH}/ctfstabs"
305     export GENOFFSETS="${TOOLS_PROTO}/opt/onbld/bin/genoffsets"

307     export CTFCONVERT="${TOOLS_PROTO}/opt/onbld/bin/${MACH}/ctfconvert"
308     export CTFMERGE="${TOOLS_PROTO}/opt/onbld/bin/${MACH}/ctfmerge"
309     export NDRGEN="${TOOLS_PROTO}/opt/onbld/bin/${MACH}/ndrgen"

311     PATH="${TOOLS_PROTO}/opt/onbld/bin/${MACH}:${PATH}"
312     PATH="${TOOLS_PROTO}/opt/onbld/bin:${PATH}"
313     export PATH
314 fi

316 export DMAKE_MODE=${DMAKE_MODE:-parallel}

318 #
319 # Work around folks who have historically used GCC_ROOT and convert it to
320 # GNUC_ROOT. We leave GCC_ROOT in the environment for now (though this could
321 # mess up the case where multiple different gcc versions are being used to
322 # shadow).
323 #
324 if [[ -n "${GCC_ROOT}" ]]; then
325     export GNUC_ROOT=${GCC_ROOT}
326 fi

```

```

328 DEF_STRIPFLAG="--s"

330 TMPDIR="/tmp"

332 export \
333     PATH TMPDIR \
334     POUND_SIGN \
335     DEF_STRIPFLAG \
336     RELEASE_DATE
337 unset \
338     CFLAGS \
339     LD_LIBRARY_PATH

341 # a la ws
342 ENVLDLIBS1=
343 ENVLDLIBS2=
344 ENVLDLIBS3=
345 ENVCPPFLAGS1=
346 ENVCPPFLAGS2=
347 ENVCPPFLAGS3=
348 ENVCPPFLAGS4=
349 PARENT_ROOT=
350 PARENT_TOOLS_ROOT=

352 if [[ "${MULTI_PROTO}" != "yes" && "${MULTI_PROTO}" != "no" ]]; then
353     printf \
354         'WARNING: invalid value for MULTI_PROTO (%s); setting to "no".\n' \
355         "${MULTI_PROTO}"
356     export MULTI_PROTO="no"
357 fi

359 [[ "${MULTI_PROTO}" == "yes" ]] && export ROOT="${ROOT}${SUFFIX}"

361 ENVLDLIBS1=-L$ROOT/lib -L$ROOT/usr/lib"
362 ENVCPPFLAGS1="-I$ROOT/usr/include"
363 MAKEFLAGS=e

365 export \
366     ENVLDLIBS1 \
367     ENVLDLIBS2 \
368     ENVLDLIBS3 \
369     ENVCPPFLAGS1 \
370     ENVCPPFLAGS2 \
371     ENVCPPFLAGS3 \
372     ENVCPPFLAGS4 \
373     MAKEFLAGS \
374     PARENT_ROOT \
375     PARENT_TOOLS_ROOT

377 printf 'RELEASE is %s\n' "$RELEASE"
378 printf 'VERSION is %s\n' "$VERSION"
379 printf 'RELEASE_DATE is %s\n\n' "$RELEASE_DATE"

381 if [[ -f "$SRC/Makefile" ]] && egrep -s '^setup:' "$SRC/Makefile" ; then
382     print "The top-level 'setup' target is available \c"
383     print "to build headers and tools."
384     print ""

386 elif "${flags.t}" ; then
387     printf \
388         'The tools can be (re)built with the install target in %s.\n\n' \
389         "${TOOLS}"
390 fi

392 #
393 # place ourselves in a new task, respecting BUILD_PROJECT if set.

```

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

7

```
394 #
395 /usr/bin/newtask -c $$ ${BUILD_PROJECT:+-p$BUILD_PROJECT}

397 if [[ "${flags.c}" == "false" && -x "$SHELL" && \
398     "$(basename -- "${SHELL}")" != "csh" ]]; then
399     # $SHELL is set, and it's not csh.

401     if "${flags.f}" ; then
402         print 'WARNING: -f is ignored when $SHELL is not csh'
403     fi

405     printf 'Using %s as shell.\n' "$SHELL"
406     exec "$SHELL" ${@:+-c "$@"}

408 elif "${flags.f}" ; then
409     print 'Using csh -f as shell.'
410     exec csh -f ${@:+-c "$@"}

412 else
413     print 'Using csh as shell.'
414     exec csh ${@:+-c "$@"}
415 fi

417 # not reached
```