

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

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

Nightly can use a different tempdir.

_____unchanged_portion_omitted_____

774 MACH='uname -p'

```
776 if [ "$OPTHOME" = "" ]; then
777     OPTHOME=/opt
778     export OPTHOME
779 fi
780 if [ "$TEAMWARE" = "" ]; then
781     TEAMWARE=$OPTHOME/teamware
782     export TEAMWARE
783 fi
```

785 USAGE='Usage: nightly [-in] [+t] [-V VERS] <env_file>

787 Where:

```
788     -i      Fast incremental options (no clobber, lint, check)
789     -n      Do not do a bringover
790     +t      Use the build tools in $ONBLD_TOOLS/bin
791     -V VERS set the build version string to VERS
```

```
793     <env_file> file in Bourne shell syntax that sets and exports
794     variables that configure the operation of this script and many of
795     the scripts this one calls. If <env_file> does not exist,
796     it will be looked for in $OPTHOME/onbld/env.
```

798 non-DEBUG is the default build type. Build options can be set in the
799 NIGHTLY_OPTIONS variable in the <env_file> as follows:

```
801     -A      check for ABI differences in .so files
802     -C      check for cstyle/hdrchk errors
803     -D      do a build with DEBUG on
804     -F      do _not_ do a non-DEBUG build
805     -G      gate keeper default group of options (-au)
806     -I      integration engineer default group of options (-ampu)
807     -M      do not run pmodes (safe file permission checker)
808     -N      do not run protocmp
809     -R      default group of options for building a release (-mp)
810     -U      update proto area in the parent
811     -V VERS set the build version string to VERS
812     -X      copy x86 IHV proto area
813     -f      find unreferenced files
814     -i      do an incremental build (no "make clobber")
815     -l      do "make lint" in $LINTDIRS (default: $SRC y)
816     -m      send mail to $MAILTO at end of build
817     -n      do not do a bringover
818     -o      build using root privileges to set OWNER/GROUP (old style)
819     -p      create packages
820     -r      check ELF runtime attributes in the proto area
821     -t      build and use the tools in $SRC/tools (default setting)
822     +t      Use the build tools in $ONBLD_TOOLS/bin
823     -u      update proto_list_$MACH and friends in the parent workspace;
824     when used with -f, also build an unrefmaster.out in the parent
825     -w      report on differences between previous and current proto areas
826     -z      compress cpio archives with gzip
827     -W      Do not report warnings (freeware gate ONLY)
828 '
829 #
830 # A log file will be generated under the name $LOGFILE
831 # for partially completed build and log.'date +%F'
```

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```
832 #         in the same directory for fully completed builds.
833 #
```

835 # default values for low-level FLAGS; G I R are group FLAGS

```
836 A_FLAG=n
837 C_FLAG=n
838 D_FLAG=n
839 F_FLAG=n
840 f_FLAG=n
841 i_FLAG=n; i_CMD_LINE_FLAG=n
842 l_FLAG=n
843 M_FLAG=n
844 m_FLAG=n
845 N_FLAG=n
846 n_FLAG=n
847 o_FLAG=n
848 P_FLAG=n
849 p_FLAG=n
850 r_FLAG=n
851 T_FLAG=n
852 t_FLAG=y
853 U_FLAG=n
854 u_FLAG=n
855 V_FLAG=n
856 W_FLAG=n
857 w_FLAG=n
858 X_FLAG=n
859 #
860 XMOD_OPT=
861 #
862 build_ok=y
```

```
864 #
865 # examine arguments
866 #
```

```
868 OPTIND=1
869 while getopts +intV: FLAG
870 do
871     case $FLAG in
872         i ) i_FLAG=y; i_CMD_LINE_FLAG=y
873             ;;
874         n ) n_FLAG=y
875             ;;
876         +t ) t_FLAG=n
877             ;;
878         V ) V_FLAG=y
879             V_ARG="$OPTARG"
880             ;;
881         \? ) echo "$USAGE"
882             exit 1
883             ;;
884         esac
885 done
```

```
887 # correct argument count after options
888 shift 'expr $OPTIND - 1'
```

```
890 # test that the path to the environment-setting file was given
891 if [ $# -ne 1 ]; then
892     echo "$USAGE"
893     exit 1
894 fi
```

```
896 # check if user is running nightly as root
897 # ISUSER is set non-zero if an ordinary user runs nightly, or is zero
```

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```

898 # when root invokes nightly.
899 /usr/bin/id | grep '^uid=0(' >/dev/null 2>&1
900 ISUSER=$?;      export ISUSER

902 #
903 # force locale to C
904 LC_COLLATE=C;    export LC_COLLATE
905 LC_CTYPE=C;      export LC_CTYPE
906 LC_MESSAGES=C;   export LC_MESSAGES
907 LC_MONETARY=C;   export LC_MONETARY
908 LC_NUMERIC=C;    export LC_NUMERIC
909 LC_TIME=C;       export LC_TIME

911 # clear environment variables we know to be bad for the build
912 unset LD_OPTIONS
913 unset LD_AUDIT      LD_AUDIT_32      LD_AUDIT_64
914 unset LD_BIND_NOW   LD_BIND_NOW_32   LD_BIND_NOW_64
915 unset LD_BREATH     LD_BREATH_32     LD_BREATH_64
916 unset LD_CONFIG     LD_CONFIG_32     LD_CONFIG_64
917 unset LD_DEBUG      LD_DEBUG_32      LD_DEBUG_64
918 unset LD_DEMANGLE   LD_DEMANGLE_32   LD_DEMANGLE_64
919 unset LD_FLAGS      LD_FLAGS_32      LD_FLAGS_64
920 unset LD_LIBRARY_PATH LD_LIBRARY_PATH_32 LD_LIBRARY_PATH_64
921 unset LD_LOADFLTR    LD_LOADFLTR_32   LD_LOADFLTR_64
922 unset LD_NOAUDIT     LD_NOAUDIT_32    LD_NOAUDIT_64
923 unset LD_NOAUXFLTR   LD_NOAUXFLTR_32  LD_NOAUXFLTR_64
924 unset LD_NOCONFIG     LD_NOCONFIG_32   LD_NOCONFIG_64
925 unset LD_NODIRCONFIG  LD_NODIRCONFIG_32 LD_NODIRCONFIG_64
926 unset LD_NODIRECT    LD_NODIRECT_32   LD_NODIRECT_64
927 unset LD_NOLAZYLOAD   LD_NOLAZYLOAD_32 LD_NOLAZYLOAD_64
928 unset LD_NOOBJALTER   LD_NOOBJALTER_32 LD_NOOBJALTER_64
929 unset LD_NOVERSION    LD_NOVERSION_32  LD_NOVERSION_64
930 unset LD_ORIGIN       LD_ORIGIN_32     LD_ORIGIN_64
931 unset LD_PRELOAD      LD_PRELOAD_32    LD_PRELOAD_64
932 unset LD_PROFILE      LD_PROFILE_32    LD_PROFILE_64

934 unset CONFIG
935 unset GROUP
936 unset OWNER
937 unset REMOTE
938 unset ENV
939 unset ARCH
940 unset CLASSPATH
941 unset NAME

943 #
944 # To get ONBLD_TOOLS from the environment, it must come from the env file.
945 # If it comes interactively, it is generally TOOLS_PROTO, which will be
946 # clobbered before the compiler version checks, which will therefore fail.
947 #
948 unset ONBLD_TOOLS

950 #
951 # Setup environmental variables
952 #
953 if [ -f /etc/nightly.conf ]; then
954     . /etc/nightly.conf
955 fi

957 if [ -f $1 ]; then
958     if [[ $1 = */* ]]; then
959         . $1
960     else
961         . ./$1
962     fi
963 else

```

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```

964     if [ -f $OPTHOME/onbld/env/$1 ]; then
965         . $OPTHOME/onbld/env/$1
966     else
967         echo "Cannot find env file as either $1 or $OPTHOME/onbld/env/$1
968             exit 1
969     fi
970 fi

972 # contents of stdenv.sh inserted after next line:
973 # STDENV_START
974 # STDENV_END

976 # Check if we have sufficient data to continue...
977 [[ -v CODEMGR_WS ]] || fatal_error "Error: Variable CODEMGR_WS not set."
978 if [[ "${NIGHTLY_OPTIONS}" == ~(F)n ]] ; then
979     # Check if the gate data are valid if we don't do a "bringover" below
980     [[ -d "${CODEMGR_WS}" ]] || \
981         fatal_error "Error: ${CODEMGR_WS} is not a directory."
982     [[ -f "${CODEMGR_WS}/usr/src/Makefile" ]] || \
983         fatal_error "Error: ${CODEMGR_WS}/usr/src/Makefile not found."
984 fi

986 #
987 # place ourselves in a new task, respecting BUILD_PROJECT if set.
988 #
989 if [ -z "$BUILD_PROJECT" ]; then
990     /usr/bin/newtask -c $$
991 else
992     /usr/bin/newtask -c $$ -p $BUILD_PROJECT
993 fi

995 ps -o taskid= -p $$ | read build_taskid
996 ps -o project= -p $$ | read build_project

998 #
999 # See if NIGHTLY_OPTIONS is set
1000 #
1001 if [ "$NIGHTLY_OPTIONS" = "" ]; then
1002     NIGHTLY_OPTIONS="-aBm"
1003 fi

1005 #
1006 # If BRINGOVER_WS was not specified, let it default to CLONE_WS
1007 #
1008 if [ "$BRINGOVER_WS" = "" ]; then
1009     BRINGOVER_WS=$CLONE_WS
1010 fi

1012 #
1013 # If CLOSED_BRINGOVER_WS was not specified, let it default to CLOSED_CLONE_WS
1014 #
1015 if [ "$CLOSED_BRINGOVER_WS" = "" ]; then
1016     CLOSED_BRINGOVER_WS=$CLOSED_CLONE_WS
1017 fi

1019 #
1020 # If BRINGOVER_FILES was not specified, default to usr
1021 #
1022 if [ "$BRINGOVER_FILES" = "" ]; then
1023     BRINGOVER_FILES="usr"
1024 fi

1026 check_closed_tree

1028 #
1029 # Note: changes to the option letters here should also be applied to the

```

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```

1030 #      bldenv script. 'd' is listed for backward compatibility.
1031 #
1032 NIGHTLY_OPTIONS=-${NIGHTLY_OPTIONS#-}
1033 OPTIND=1
1034 while getopts +ABCDdFfGiIlMmNnoPpRrTtUuWwXxz FLAG $NIGHTLY_OPTIONS
1035 do
1036     case $FLAG in
1037         A ) A_FLAG=y
1038             ;;
1039         B ) D_FLAG=y
1040             ;; # old version of D
1041         C ) C_FLAG=y
1042             ;;
1043         D ) D_FLAG=y
1044             ;;
1045         F ) F_FLAG=y
1046             ;;
1047         f ) f_FLAG=y
1048             ;;
1049         G ) u_FLAG=y
1050             ;;
1051         I ) m_FLAG=y
1052             p_FLAG=y
1053             u_FLAG=y
1054             ;;
1055         i ) i_FLAG=y
1056             ;;
1057         l ) l_FLAG=y
1058             ;;
1059         M ) M_FLAG=y
1060             ;;
1061         m ) m_FLAG=y
1062             ;;
1063         N ) N_FLAG=y
1064             ;;
1065         n ) n_FLAG=y
1066             ;;
1067         o ) o_FLAG=y
1068             ;;
1069         P ) P_FLAG=y
1070             ;; # obsolete
1071         p ) p_FLAG=y
1072             ;;
1073         R ) m_FLAG=y
1074             p_FLAG=y
1075             ;;
1076         r ) r_FLAG=y
1077             ;;
1078         T ) T_FLAG=y
1079             ;; # obsolete
1080     +t ) t_FLAG=n
1081         ;;
1082         U ) if [ -z "${PARENT_ROOT}" ]; then
1083             echo "PARENT_ROOT must be set if the U flag is" \
1084                 "present in NIGHTLY_OPTIONS."
1085             exit 1
1086         fi
1087         NIGHTLY_PARENT_ROOT=$PARENT_ROOT
1088         if [ -n "${PARENT_TOOLS_ROOT}" ]; then
1089             NIGHTLY_PARENT_TOOLS_ROOT=$PARENT_TOOLS_ROOT
1090         fi
1091         U_FLAG=y
1092         ;;
1093         u ) u_FLAG=y
1094             ;;
1095         W ) W_FLAG=y

```

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```

1096             ;;
1098         w ) w_FLAG=y
1099             ;;
1100         X ) # now that we no longer need realmode builds, just
1101             # copy IHV packages. only meaningful on x86.
1102             if [ "$MACH" = "i386" ]; then
1103                 X_FLAG=y
1104             fi
1105             ;;
1106         x ) XMOD_OPT="-x"
1107             ;;
1108         \? ) echo "$USAGE"
1109             exit 1
1110             ;;
1111     esac
1112 done

1114 if [ $ISUSER -ne 0 ]; then
1115     if [ "$o_FLAG" = "y" ]; then
1116         echo "Old-style build requires root permission."
1117         exit 1
1118     fi

1120     # Set default value for STAFFER, if needed.
1121     if [ -z "$STAFFER" -o "$STAFFER" = "nobody" ]; then
1122         STAFFER="/usr/xpg4/bin/id -un"
1123         export STAFFER
1124     fi
1125 fi

1127 if [ -z "$MAILTO" -o "$MAILTO" = "nobody" ]; then
1128     MAILTO=$STAFFER
1129     export MAILTO
1130 fi

1132 PATH="$OPTHOME/onbld/bin:$OPTHOME/onbld/bin/${MACH}:/usr/ccs/bin"
1133 PATH="$PATH:$OPTHOME/SUNWspro/bin:$TEAMWARE/bin:/usr/bin:/usr/sbin:/usr/ucb"
1134 PATH="$PATH:/usr/openwin/bin:/usr/sfw/bin:/opt/sfw/bin:."
1135 export PATH

1137 # roots of source trees, both relative to $SRC and absolute.
1138 relsrkdirs="."
1139 abssrkdirs="$SRC"

1141 unset CH
1142 if [ "$o_FLAG" = "y" ]; then
1143     # root invoked old-style build -- make sure it works as it always has
1144     # by exporting 'CH'. The current Makefile.master doesn't use this, but
1145     # the old ones still do.
1146     PROTOCMPTERSE="protocmp.terse"
1147     CH=
1148     export CH
1149 else
1150     PROTOCMPTERSE="protocmp.terse -gu"
1151 fi
1152 POUND_SIGN="#"
1153 # have we set RELEASE_DATE in our env file?
1154 if [ -z "$RELEASE_DATE" ]; then
1155     RELEASE_DATE=$(LC_ALL=C date +%B %Y)
1156 fi
1157 BUILD_DATE=$(LC_ALL=C date +%Y-%b-%d)
1158 BASEWSDIR=$(basename $CODEMGR_WS)
1159 DEV_CM="\@(#)SunOS Internal Development: $LOGNAME $BUILD_DATE [$BASEWSDIR]\\""

1161 # we export POUND_SIGN, RELEASE_DATE and DEV_CM to speed up the build process

```

```

1162 # by avoiding repeated shell invocations to evaluate Makefile.master definitions
1163 # we export o_FLAG and X_FLAG for use by makebfu, and by usr/src/pkg/Makefile
1164 export o_FLAG X_FLAG POUND_SIGN RELEASE_DATE DEV_CM

```

```

1166 maketype="distributed"
1167 if [[ -z "$MAKE" ]]; then
1168     MAKE=dmake
1169 elif [[ ! -x "$MAKE" ]]; then
1170     echo "$MAKE is set to garbage in the environment"
1171     exit 1
1172 fi
1173 # get the dmake version string alone
1174 DMAKE_VERSION=$( $MAKE -v )
1175 DMAKE_VERSION=${DMAKE_VERSION#*: }
1176 # focus in on just the dotted version number alone
1177 DMAKE_MAJOR=$( echo $DMAKE_VERSION | \
1178     sed -e 's/.*\<^\([^\.]*)\>.*$/\1/' )
1179 # extract the second (or final) integer
1180 DMAKE_MINOR=${DMAKE_MAJOR#*.}
1181 DMAKE_MINOR=${DMAKE_MINOR%.*}
1182 # extract the first integer
1183 DMAKE_MAJOR=${DMAKE_MAJOR%.*}
1184 CHECK_DMAKE=${CHECK_DMAKE:-y}
1185 # x86 was built on the 12th, sparc on the 13th.
1186 if [ "$CHECK_DMAKE" = "y" -a \
1187     "$DMAKE_VERSION" != "Sun Distributed Make 7.3 2003/03/12" -a \
1188     "$DMAKE_VERSION" != "Sun Distributed Make 7.3 2003/03/13" -a \
1189     "$DMAKE_MAJOR" -lt 7 -o \
1190     "$DMAKE_MAJOR" -eq 7 -a "$DMAKE_MINOR" -lt 4 \ ]; then
1191     if [ -z "$DMAKE_VERSION" ]; then
1192         echo "$MAKE is missing."
1193         exit 1
1194     fi
1195     echo 'whence $MAKE' version is:"
1196     echo "  ${DMAKE_VERSION}"
1197     cat <<EOF

```

1199 This version may not be safe for use. Either set TEAMWARE to a better
1200 path or (if you really want to use this version of dmake anyway), add
1201 the following to your environment to disable this check:

```

1203 CHECK_DMAKE=n
1204 EOF
1205     exit 1
1206 fi
1207 export PATH
1208 export MAKE

1210 if [ "${SUNWSPRO}" != "" ]; then
1211     PATH="${SUNWSPRO}/bin:$PATH"
1212     export PATH
1213 fi

```

```

1215 hostname=$(uname -n)
1216 if [[ $DMAKE_MAX_JOBS != +([0-9]) || $DMAKE_MAX_JOBS -eq 0 ]]
1217 then
1218     maxjobs=
1219     if [[ -f $HOME/.make.machines ]]
1220     then
1221         # Note: there is a hard tab and space character in the []s
1222         # below.
1223         egrep -i "^[ ]*$hostname[ ]*" \
1224             $HOME/.make.machines | read host jobs
1225         maxjobs=${jobs##*=}
1226     fi

```

```

1228     if [[ $maxjobs != +([0-9]) || $maxjobs -eq 0 ]]
1229     then
1230         # default
1231         maxjobs=4
1232     fi

```

```

1234     export DMAKE_MAX_JOBS=$maxjobs
1235 fi

```

```

1237 DMAKE_MODE=parallel;
1238 export DMAKE_MODE

```

```

1240 if [ -z "${ROOT}" ]; then
1241     echo "ROOT must be set."
1242     exit 1
1243 fi

```

```

1245 #
1246 # if -V flag was given, reset VERSION to V_ARG
1247 #
1248 if [ "$V_FLAG" = "y" ]; then
1249     VERSION=$V_ARG
1250 fi

```

```

1252 #
1253 # Check for IHV root for copying ihv proto area
1254 #
1255 if [ "$X_FLAG" = "y" ]; then
1256     if [ "$IA32_IHV_ROOT" = "" ]; then
1257         echo "IA32_IHV_ROOT: must be set for copying ihv proto"
1258         args_ok=n
1259     fi
1260     if [ ! -d "$IA32_IHV_ROOT" ]; then
1261         echo "IA32_IHV_ROOT: not found"
1262         args_ok=n
1263     fi
1264     if [ "$IA32_IHV_WS" = "" ]; then
1265         echo "IA32_IHV_WS: must be set for copying ihv proto"
1266         args_ok=n
1267     fi
1268     if [ ! -d "$IA32_IHV_WS" ]; then
1269         echo "IA32_IHV_WS: not found"
1270         args_ok=n
1271     fi
1272 fi

```

```

1274 if [[ -z "$TMPDIR_ROOT" ]]; then
1275     TMPDIR_ROOT="/tmp"
1276 fi
1277 TMPDIR="${TMPDIR_ROOT}/nightly.tmpdir.$$"
1278 TMPDIR="/tmp/nightly.tmpdir.$$"
1279 export TMPDIR
1280 rm -rf $TMPDIR
1281 mkdir -p $TMPDIR || exit 1
1282 chmod 777 $TMPDIR

```

```

1283 #
1284 # Keep elfsign's use of pkcs11_softtoken from looking in the user home
1285 # directory, which doesn't always work. Needed until all build machines
1286 # have the fix for 6271754
1287 #
1288 SOFTTOKEN_DIR=$TMPDIR
1289 export SOFTTOKEN_DIR

```

```

1291 #
1292 # Tools should only be built non-DEBUG. Keep track of the tools proto

```

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```
1293 # area path relative to $TOOLS, because the latter changes in an
1294 # export build.
1295 #
1296 # TOOLS_PROTO is included below for builds other than usr/src/tools
1297 # that look for this location. For usr/src/tools, this will be
1298 # overridden on the $MAKE command line in build_tools().
1299 #
1300 TOOLS=${SRC}/tools
1301 TOOLS_PROTO_REL=proto/root_${MACH}-nd
1302 TOOLS_PROTO=${TOOLS}/${TOOLS_PROTO_REL};      export TOOLS_PROTO

1304 unset    CFLAGS LD_LIBRARY_PATH LDFLAGS

1306 # create directories that are automatically removed if the nightly script
1307 # fails to start correctly
1308 function newdir {
1309     dir=$1
1310     toadd=
1311     while [ ! -d $dir ]; do
1312         toadd="$dir $toadd"
1313         dir='dirname $dir'
1314     done
1315     torm=
1316     newlist=
1317     for dir in $toadd; do
1318         if staffer mkdir $dir; then
1319             newlist="$ISUSER $dir $newlist"
1320             torm="$dir $torm"
1321         else
1322             [ -z "$torm" ] || staffer rmdir $torm
1323             return 1
1324         fi
1325     done
1326     newdirlist="$newlist $newdirlist"
1327     return 0
1328 }
```

unchanged_portion_omitted