```csh
#!/bin/csh -f
###############################################################
#######
#     Name: setup.ssw_env
#
#     Purpose: define SSW top level enivironmentals
#
#     History: 21-jun-1995 (S.L.Freeland)
#                 18-Feb-1996 (S.L.Freeland)
#                 23-Feb-1996 (S.L.Freeland
#                 23-oct-1996 (S.L.Freeland) - some SSW_SITE directories
#                 29-oct-1996 (S.L.Freeland) - add (decomment) TRACE
#                 10-nov-1996 (S.L.Freeland) - shared library definition change
#                 24-feb-1997 (S.L.Freeland) - SSW_PACKAGES definition
#                  9-apr-1997 (S.L.Freeland) - enabled SMM
#                 10-apr-1997 (S.L.Freeland) - add XRAY & CDS_CAT package
#                 11-apr-1997 (S.L.Freeland) - directory name 'cds_cat' -> cdscat
#                                            - enable HESI and CGRO
#                                            - add packages GOES & SPEX
#                 12-apr-1997 (S.L.Freeland) - ZTOOLS->standard packages
#                 30-apr-1997 (S.L.Freeland) - add LPARL package -> ssw_instr
#                  8-may-1997 (S.L.Freeland) - add ANA package
#                 24-nov-1997 (S.L.Freeland) - setenv LANG -> C (english-centric)
#                 18-nov-1997 (S.L.Freeland) - add HESSI
#                 18-May-1998 (S.L.Freeland) - add RADIO (ETHZ)
#                 20-Oct-1998 (S.L.Freeland) - add radio/NRH (Nancey)
#                 23-Oct-1998 (S.L.Freeland) - add STEREO package
#                 11-Nov-1998 (S.L.Freeland) - put binaries package 1st (ssw_bin)
#                 17-Nov-1998 (S.L.Freeland) - add LIMBSTUFF package
#                 16-Dec-1998 (S.L.Freeland) - ssw_contrib_master->sxt.lmsal.com
#                 29-Jan-1999 (S.L.Freeland) - restored ssw_contrib_master->sohoftp
#                 25-feb-1999 (S.L.Freeland) - add OPTICAL (soon & lapalma)
#                  4-Mar-1999 (S.L.Freeland) - add OPTICAL/nso
#                  3-Jun-1999 (S.L.Freeland) - add radio/norh (nobeyama)
#                 27-Jul-1999 (S.L.Freeland) - add VDEM package
#                 19-Nov-1999 (S.L.Freeland) - enable ovro
#                 22-Mar-2000 (S.L.Freeland) - add ovsa (need to merge w/ovro??)
#                 31-Mar-2000 (S.L.Freeland) - added CGRO to SSW_MISSIONS
#                 10-Apr-2000 (S.L.Freeland) - add NGDC "mission"
#                  5-Jun-2000 (S.L.Freeland) - add HXRS
#                 29-Nov-2000 (S.L.Freeland) - add optical/mees
#                  1-Dec-2000 (S.L.Freeland) - add hxrs to SSW_MISSIONS
#                 13-Dec-2000 (S.L.Freeland) - add ANDRIL ti $SSW_PACKAGES
#                 19-Dec-2000 (S.L.Freeland) - add NORP to $SSW_RADIO
```

```
#              22-Jan-2001 (S.L.Freeland) - remove obsolete HESI reference
#              19-Sep-2001 (S.L.Freeland) - add SSW_FINDSTUFF to $SSW_PACKAGES
#               9-Jan-2002 (S.L.Freeland) - add SMEI mission/instr
#               8-Jul-2002 (S.L.Freeland) - add SXI mission & SXI12 Instrument
#              10-Jul-2002 (S.L.Freeland) - SXI "Mission" -> goesimg
#              12-Jul-2002 (S.L.Freeland) - goesimg -> goes
#               3-Sep-2002 (S.L.Freeland) - solarb
#               6-Sep-2002 (S.L.Freeland) - oops, add solarb to $SSW_MISSIONS
#               4-Feb-3003 (S.L.Freeland) - add 'hydro' to $SSW_PACKAGES
#               7-Mar-2003 (S.L.Freeland) - add 'pfss'   to $SSW_PACKAGES
#              12-May-3003 (S.L.Freeland) - add 'sxig12_beta'
#               7-Jul-2003 (S.L.Freeland) - add SSW_PDL to $SSW_PACKAGES
#              11-Feb-2004 (S.L.Freeland) - add VOBS mission
#                                          with "instruments": /egso/cosec/vso
#              12-Mar-2004 (S.L.Freeland) - Stereo mission mods
#              30-Jul-2004 (S.L.Freeland) - add poa (PINTofALE) package hooks
#               3-Mar-2005 (S.L.Freeland) - add gevloc (GOES Event Locator suite,
#                                          per ssw latest_events et al.
#              18-May-2005 (S.L.Freeland) - add 'forecast' to $SSW_PACKAGES
#              27-Sep-2005 (S.L.Freeland) - add 'cmes' to $SSW_PACKAGES
#              10-Oct-2005 (S.L.Freeland) - add nlff package J.McTiernan@ssl
#              27-Jan-2006 (S.L.Freeland) - add sswserve package
#               8-May-2006 (S.L.Freeland) - add 'cactus' to $SSW_PACKAGES
#              26-Jun-2006 (S.L.Freeland) - enable SolarB sot&xrt
#              15-Sep-2006 (S.L.Freeland) - add 'spvm' packages (stokes/vector magnet...)
#              30-Sep-2006 (Zarro)        - added HINODE
#               5-Oct-2006 (S.L.Freeland) - move HINODE ahead of SOLARB
#               5-Oct-2006 (S.L.Freeland) - remove SOLARB from SSW_ALL_INSTR
#              10-Oct-2006 (S.L.Freeland) - add 'sbrowser' package (JPWuelser)
#              30-nov-2006 (S.L.Freeland) - add 'tplot' package (wind etc support
#              28-feb-2007 (S.L.Freeland) - add 'festival' package (Sorbrie etal)
#               7-Mar-2007 (S.L.Freeland) - add 'panorama' package (R.Seguin)
#              13-Mar-2007 (S.L.Freeland) - add sxig13 -> SSW_GOES_INSTR
#              15-Mar-2007 (S.L.Freeland) - add ontology package (cheung,slater)
#              27-Mar-2007 (S.L.Freeland) - move ontology package->VOBS instr
#                                          (due to sgi/irix limit - tbd)
#              22-Jan-2008 (S.L.Freeland) - add 'nrl' package; N.Rich et al secchi/lasco
#              30-Dec-2008 (W.T.Thompson) - add 'corimp' package; Huw Morgan
#              15-Jan-2009 (S.L.Freeland) - add 'proba2' mission w/swap+lyra inst
#              15-Jan-2009 (S.L.Freeland) - (TBD) IRIX issue; temp: remove lyra&gevloc
#              28-apr-2009 (S.L.Freeland) - add s3dr package by Sandy Antunes et al.
#               4-nov-2009 (S.L.Freeland) - add mkit wavelet pack by C. Alex Young
#                                          (temp remove 'forecast' pending sgi work
around)
```

```
#                       8-feb-2010 (S.L.Freeland) - sdo hooks, renable lyra
#                       17-aug-2010 (S.L.Freeland) - new radio branch 'fhnw', Andre Csillaghy &
Michael Haspra
#                       24-mar-2011 (S.L.Freeland) - helioviewer package, Jack Ireland et. al.
#                       29-mar-2011 (S.L.Freeland) - add vobs/helio, R.Bentley et al.
#                        6-sep-2011 (S.L.Freeland) - add azam package, B.Lites et.al.
#                       24-mar-2012 (S.L.Freeland) - add iris
#                       21-jan-2013 (S.L.Freeland) - add hic , A.Winebarger, S.Savage
#                       21-jan-2013 (S.L.Freeland) - add gx_simulator package, Gelu Nita et. al)
#                       31-jan-2013 (S.L.Freeland) - add swpc_cat package, George Millward, NOAA
#                        9-apr-2013 (S.L.Freeland) - add so/stix, Andre Csillaghy et al.
#                       12-jan-2014 (S.L.Freeland) - add euvdeconpak package, A. Vasquez, R. Frazin,
P. Shearer
#                       17-sep-2014 (D. Zarro)      - add radio/eovsa
#                       16-dec-2014 (S.L.Freeland) - add forward package, Sarah Gibson
#             24-feb-2015 (S.L.Freeland) - add desat package, Richard Schwartz et al.
#                        1-may-2016 (S.L.Freeland) - add goesr mission & goesr/suvi instrument + goesn
(heritage/rationalize)
#                       18-jul-2016 (S.L.Freeland   - add sunspice packages per William Thompson
#
###################################################################
#######

################### "fundamental" SSW defintions ####################
# list of supported SSW missions
setenv SSW_MISSIONS "soho yohkoh spartan trace cgro smm packages hessi radio optical
hxrs smei goes goesr goesn hinode vobs stereo proba2 iris hic so"        # serts"
# list of supported instruments for each mission
setenv SSW_SOHO_INSTR   "soho/cds soho/eit soho/sumer soho/lasco soho/mdi soho/uvcs"
setenv SSW_YOHKOH_INSTR "yohkoh/bcs yohkoh/hxt yohkoh/sxt yohkoh/wbs"
setenv SSW_SMM_INSTR    "smm/xrp smm/hxrbs smm/uvsp smm/cp smm/grs smm/cp
smm/hxis smm/acrim"
setenv SSW_CGRO_INSTR "cgro/batse"
setenv SSW_RADIO_INSTR "radio/ethz radio/fhnw radio/nrh radio/norh radio/eovsa
radio/ovsa radio/ovro radio/norp"
setenv SSW_OPTICAL_INSTR "optical/soon optical/lapalma optical/nso optical/mees"    #
optical/nso optical/mees
setenv SSW_GOES_INSTR "goes/sxig12 goes/sxig13"
setenv SSW_GOESR_INSTR "goesr/suvi"
setenv SSW_GOESN_INSTR "goesn/sxi"
setenv SSW_SOLARB_INSTR "solarb/eis solarb/xrt solarb/sot"       # solarb/fpp solarb/xrt
setenv SSW_HINODE_INSTR "hinode/eis hinode/xrt hinode/sot"
setenv SSW_VOBS_INSTR "vobs/cosec vobs/egso vobs/vso vobs/ontology vobs/helio"
setenv SSW_STEREO_INSTR   "stereo/impact  stereo/plastic  stereo/secchi  stereo/swaves
```

```
stereo/ssc"
setenv SSW_PROBA2_INSTR "proba2/swap proba2/lyra"
setenv SSW_SDO_INSTR "sdo/aia sdo/hmi sdo/eve"
setenv SSW_SO_INSTR "so/stix"

#setenv SSW_HESI_INSTR      "hesi/hesi"
setenv SSW_HESSI_INSTR      "hessi/hessi"
setenv SSW_SPARTAN_INSTR    "spartan/spartan"
setenv SSW_TRACE_INSTR      "trace/trace"          # enabled   29-oct-1996
setenv SSW_HXRS_INSTR       "hxrs/hxrs"
setenv SSW_SMEI_INSTR       "smei/smei"
setenv SSW_IRIS_INSTR    "iris/iris"
setenv SSW_HIC_INSTR        "hic/hic"
setenv  SSW_PACKAGES_INSTR "packages/binaries   packages/chianti   packages/spex
packages/xray   packages/goes   packages/cdscat   packages/ztools   packages/lparl
packages/ana   packages/mjastereo   packages/findstuff   packages/vdem   packages/andril
packages/hydro packages/pfss packages/pdl packages/poa packages/ngdc packages/cmes
packages/nlfff   packages/cactus   packages/spvm   packages/sbrowser   packages/tplot
packages/festival   packages/panorama   packages/nrl   packages/corimp   packages/s3drs
packages/mkit      packages/helioviewer      packages/azam      packages/gx_simulator
packages/swpc_cat      packages/euvdeconpak      packages/forward      packages/desat
packages/sunspice   packages/helicity"
# setenv SSW_SERTS_INSTR   "serts/xxx"
setenv      SSW_INSTR_ALL      "gen      $SSW_SOHO_INSTR      $SSW_YOHKOH_INSTR
$SSW_SPARTAN_INSTR   $SSW_TRACE_INSTR   $SSW_SMM_INSTR   $SSW_CGRO_INSTR
$SSW_HESSI_INSTR  $SSW_PACKAGES_INSTR  $SSW_RADIO_INSTR  $SSW_OPTICAL_INSTR
$SSW_HXRS_INSTR      $SSW_SMEI_INSTR      $SSW_GOES_INSTR      $SSW_GOESR_INSTR
$SSW_GOESN_INSTR   $SSW_HINODE_INSTR   $SSW_VOBS_INSTR   $SSW_STEREO_INSTR
$SSW_PROBA2_INSTR      $SSW_SDO_INSTR      $SSW_IRIS_INSTR      $SSW_HIC_INSTR
$SSW_SO_INSTR"
#################################################################
#######

#################################################################
#######
# SSW Packages                                    # future PSEUDO-MISSION?
setenv SSW_PACKAGES $SSW/packages
setenv SSW_CHIANTI   $SSW_PACKAGES/chianti              # supported
setenv SSW_SPEX      $SSW_PACKAGES/spex                  # supported
setenv SSW_XRAY      $SSW_PACKAGES/xray
setenv SSW_GOES       $SSW_PACKAGES/goes
setenv SSW_CDS_CAT   $SSW_PACKAGES/cdscat
setenv SSW_ZTOOLS     $SSW_PACKAGES/ztools                #
setenv SSW_LPARL      $SSW_PACKAGES/lparl
```

```
setenv SSW_BINARIES $SSW_PACKAGES/binaries
setenv SSW_ANA          $SSW_PACKAGES/ana
setenv SSW_MJASTEREO     $SSW_PACKAGES/mjastereo
setenv SSW_LIMBSTUFF $SSW_PACKAGES/limbstuff
setenv SSW_FINDSTUFF $SSW_PACKAGES/findstuff
setenv SSW_VDEM          $SSW_PACKAGES/vdem
setenv SSW_ANDRIL        $SSW_PACKAGES/andril
setenv SSW_HYDRO         $SSW_PACKAGES/hydro
setenv SSW_PFSS          $SSW_PACKAGES/pfss
setenv SSW_PDL           $SSW_PACKAGES/pdl
setenv SSW_POA           $SSW_PACKAGES/poa
setenv SSW_GEVLOC        $SSW_PACKAGES/gevloc
setenv SSW_FORECAST    $SSW_PACKAGES/forecast
setenv SSW_CMES          $SSW_PACKAGES/cmes
setenv SSW_NLFFF         $SSW_PACKAGES/nlfff
setenv SSW_SSWSERVE      $SSW_PACKAGES/sswserve
setenv SSW_CACTUS    $SSW_PACKAGES/cactus
setenv SSW_SPVM        $SSW_PACKAGES/spvm
setenv SSW_SBROWSER       $SSW_PACKAGES/sbrowser
setenv SSW_TPLOT      $SSW_PACKAGES/tplot
setenv SSW_FESTIVAL       $SSW_PACKAGES/festival
setenv SSW_PANORAMA     $SSW_PACKAGES/panorama
setenv SSW_NRL         $SSW_PACKAGES/nrl
#setenv SSW_ONTOLOGY       $SSW_PACKAGES/ontology # moved packages->vobs
setenv SSW_NGDC          $SSW_PACKAGES/ngdc
setenv SSW_CORIMP    $SSW_PACKAGES/corimp
setenv SSW_S3DRS      $SSW_PACKAGES/s3drs
setenv SSW_MKIT        $SSW_PACKAGES/mkit
setenv SSW_HELIOVIEWER   $SSW_PACKAGES/helioviewer
setenv SSW_AZAM           $SSW_PACKAGES/azam
setenv SSW_GX_SIMULATOR $SSW_PACKAGES/gx_simulator
setenv SSW_SWPC_CAT       $SSW_PACKAGES/swpc_cat
setenv SSW_EUVDECONPAK    $SSW_PACKAGES/euvdeconpak
setenv SSW_FORWARD       $SSW_PACKAGES/forward
setenv SSW_SUNSPICE $SSW_PACKAGES/sunspice
setenv SSW_DESAT       $SSW_PACKAGES/desat
setenv  SSW_PACKAGES_ALL  "$SSW_BINARIES  $SSW_CHIANTI  $SSW_SPEX  $SSW_XRAY
$SSW_GOES $SSW_ZTOOLS $SSW_LPARL $SSW_ANA $SSW_MJASTEREO $SSW_FINDSTUFF
$SSW_ANDRIL  $SSW_HYDRO   $SSW_PFSS   $SSW_PDL   $SSW_POA   $SSW_GEVLOC
$SSW_CMES  $SSW_NLFFF  $SSW_NGDC  $SSW_CACTUS  $SSW_SPVM  $SSW_SBROWSER
$SSW_TPLOT $SSW_FESTIVAL $SSW_PANORAMA $SSW_NRL $SSW_CORIMP $SSW_S3DRS
$SSW_MKIT  $SSW_HELIOVIEWER  $SSW_AZAM  $SSW_GX_SIMULATOR  $SSW_SWPC_CAT
$SSW_EUVDECONPAK $SSW_FORWARD $SSW_DESAT $SSW_SUNSPICE"
##############################################################
```

```
#######

################################################################
#######
setenv SSW_SETUP           $SSW/gen/setup
setenv SSW_GEN_SETUP       $SSW/gen/setup
setenv SSW_SETUP_DATA      $SSW_SETUP/data
setenv SSW_BIN          $SSW/gen/bin
setenv SSW_GEN_DATA        $SSW/gen/data
setenv DIR_GEN_SPECTRA    $SSW_GEN_DATA/spectra
################################################################
#######

################################################################
#######
setenv SSW_SITE_LOGS       $SSW/site/logs
setenv SSW_SITE_SETUP      $SSW/site/setup
setenv SSW_SITE_MIRROR    $SSW/site/mirror
################################################################
#######

################################################################
#######
# Common SSW environmentals (relative to $SSW)
setenv TIME_CONV $SSW/gen/data/time
################################################################
#######

################################################################
#######
# Shared libraries
setenv SSW_LIBRARIES $SSW/gen/idl_libs
setenv IDL_SSWASTRON $SSW_LIBRARIES/astron
################################################################
#######

################################################################
#######
# set language bias to english
# ( certain SSW routines which 'spawn' cmds expect English results )
setenv LANG C
################################################################
#######
# Perl Packages
```

```
setenv SSW_PERL $SSW/gen/perl
setenv SSW_URL_GET $SSW_PERL/url_get
##################################################################
#######

####################################################
# ssw_contrib host
#setenv ssw_contrib_master sxt.lmsal.com          # sohoftp down
setenv ssw_contrib_master sohoftp.nascom.nasa.gov # back up, Jan 29.
####################################################

# Help files

setenv SSW_HELP $SSW/gen/idl/help
```