This distribution contains makefiles for VMS. It is a very preliminary release

and many tests have still to be done.

The compilation was tested with

-OpenVMS Alpha 7.2-1

-DECC 6.2

-Compaq C++ 6.2

-DECWindows 1.2-5

-GTK1.2.8 (for wxGTK)

To get everything compiled you'll need to have installed prior to compiling

wxWidgets:

-Bison

get it from http://www.openvms.digital.com/freeware/

You'll have to fix the following bug:

add the following 3 lines in BISON.SIMPLE

#elif \_\_VMS

#include <stdlib.h>

#define alloca malloc

before

#endif /\* \_\_hpux \*/

-Flex

get it from http://www.openvms.digital.com/freeware/

-Sed

get it from http://www.openvms.digital.com/freeware/

-sys$library:libjpeg.olb (from ftp://ftp.uu.net/graphics/jpeg/ )

add /name=(as\_is,short) to CFLAGS in the descrip.mms file

don't forget to mms/descrip=Makefile/macro="ALPHA=1"

-sys$library:libpng.olb & sys$library:libz.olb (from

http://www.cdrom.com/pub/png/pngcode.html )

add /name=(as\_is,short) to CFLAGS in the descrip.mms of both png and

zlib

-sys$library:libtiff.olb (from: ftp://ftp.sgi.com/graphics/tiff/ )

- add /name=(as\_is,short) to the C\_COMPILE variable in MAKVMS.COM

- the following patch is needed in the tiff3.4 distribution:

polka-jj) diff TIFFCOMP.H;3 TIFFCOMP.H;1

\*\*\*\*\*\*\*\*\*\*\*\*

File $DISK2:[JOUKJ.PUBLIC.TIFF.TIFF.LIBTIFF]TIFFCOMP.H;3

97 #ifndef HAVE\_UNISTD\_H

98 #define HAVE\_UNISTD\_H 1

99 #endif

100 #endif

\*\*\*\*\*\*

File $DISK2:[JOUKJ.PUBLIC.TIFF.TIFF.LIBTIFF]TIFFCOMP.H;1

97 #define HAVE\_UNISTD\_H 1

98 #endif

\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*

File $DISK2:[JOUKJ.PUBLIC.TIFF.TIFF.LIBTIFF]TIFFCOMP.H;3

108 #if !defined(SEEK\_SET) && defined( HAVE\_UNISTD\_H )

109 #include <unistd.h>

\*\*\*\*\*\*

File $DISK2:[JOUKJ.PUBLIC.TIFF.TIFF.LIBTIFF]TIFFCOMP.H;1

106 #if !defined(SEEK\_SET) && HAVE\_UNISTD\_H

107 #include <unistd.h>

\*\*\*\*\*\*\*\*\*\*\*\*

-X11:libxpm.olb ( from ftp://koala.inria.fr/pub/xpm/ )

add /name=(as\_is,short) to cc\_defs in the descrip.mms file

-GTK & VMS Porting library (only needed for wxGTK)

( from http://www.openvms.digital.com/openvms/products/ips/gtk.html )

-Redefine the logical SYS$LIBRARY in such a way that it also points

to the includefile/library directories of the above packages:

i.e.

$ define sys$library sys$sysroot:[syslib],-

$disk2:[joukj.public.xpm.xpm.lib],-

$disk2:[joukj.public.jpeg.jpeg],-

$disk2:[joukj.public.png.libpng],-

$disk2:[joukj.public.tiff.tiff.libtiff],-

$disk2:[joukj.public.png.zlib],-

$disk2:[joukj.public.gtk.gtk.glib],-

$disk2:[joukj.public.gtk.gtk.glib.gthread],-

$disk2:[joukj.compaq.porting\_library.dist.include]

-redefine the logical X11 in such a way that also points to the

xpm-distribution.

i.e.

$ define/nolog X11 $disk2:[joukj.public.xpm.xpm.lib],decw$include

-for wxGTK you'll have to redefine SYS$SHARE to compile and run the

applications.

i.e.

$ ass $disk2:[joukj.public.gtk.gtk.glib],-

$disk2:[joukj.public.gtk.gtk.glib.gmodule],-

$disk2:[joukj.public.gtk.gtk.gtk.gdk],-

$disk2:[joukj.public.gtk.gtk.gtk.gtk],-

$disk2:[joukj.compaq.porting\_library.dist.lib],-

sys$sysroot:[syslib] sys$share

-At the moment you'll have to hack the [.src.common]descrip.mms file

to include the right location of bison/flex and sed, but i intend to

make this better in future.

-The following is a work-around a include file bug which occurs on some

versions of VMS. If you get lib$get\_current\_invo\_context undefined

while linking you'll have to add

"lib$get\_current\_invo\_context"="LIB$GET\_CURR\_INVO\_CONTEXT"

in [.src.unix]descrip.mms to CXX\_DEFINE. and recompile wxWidgets.

-Some versions of the CC compiler give warnings like

%CC-W-CXXKEYWORD, "bool" is a keyword in C++ .... when compiling

if You encounter these, replace mms by mms/ignore=warning in the

following

-Now build everything using one of the following

mms

mms gtk

mms motif

in the main directory of the distribution. Without an argument both wxGTK

and wxMOTIF are built. The libraries are built in the [.lib] directory.

All the samples I tried are built automatically.

-I think in general wxGTK is better maintained, so that version is my

first choice.

-Note that only a few people have used wxWidgets on VMS so many problems are

to be expected.

-Many thanks for testing and reporting problems to:

-Walter Braeu

-Known problems :

wxMOTIF :

-The calendar sample puts the boxes of the month and year selection on

top of each other.

-The caret sample: sometimes a non blinking caret remains in the

window.

-checklist sample: There is no way to check/uncheck since this box is

missing

-conftest sample: The boxes in the window are too small to display

texts with the fonts specified.

-controls sample: radiobox does not appear on the screen

-Some samples crash due to colour allocation problems

i.e. -drawing,image

wxGTK :

-In the calendar sample options can only be switched on and not off

again.

-image sample: after clicking "about" the colourmap is permanently

changed resulting in strange images

Finally :

I like the idea of Robert Roebling that CD's with classical music should be

send to the authors.

>-----------------------------------------------------------------------------<

Jouk Jansen

joukj@hrem.stm.tudelft.nl

Technische Universiteit Delft tttttttttt uu uu ddddddd

Nationaal centrum voor HREM tttttttttt uu uu dd dd

Rotterdamseweg 137 tt uu uu dd dd

2628 AL Delft tt uu uu dd dd

Nederland tt uu uu dd dd

tel. 31-15-2781536 tt uuuuuuu ddddddd

>-----------------------------------------------------------------------------<