

# GIMP

## GNU Image Manipulation Program

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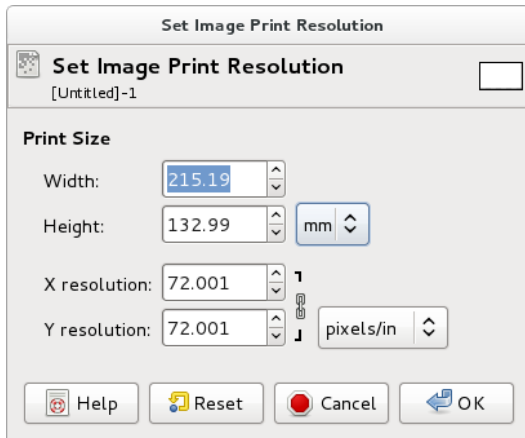
# Project description

- Image retouching and editing tool
- GPLv3
- Linux, Mac OS X, MS Windows



## Bug description

- Bug **593167** - *Support Windows in gimp\_get\_default\_unit()* [bugzilla]



# Workflow

- 1 Find the bug
- 2 Fix the bug
- 3 Build GIMP
- 4 Test the fix

# Find the bug

```
GimpUnit
gimp_get_default_unit (void)
{
#ifdef HAVE_NL_MEASUREMENT_MEASUREMENT
    const gchar *measurement = nl_langinfo (_NL_MEASUREMENT_MEASUREMENT);

    switch (*((guchar *) measurement))
    {
        case 1: /* metric */
            return GIMP_UNIT_MM;

        case 2: /* imperial */
            return GIMP_UNIT_INCH;
    }
#endif

    return GIMP_UNIT_MM;
}
```

# Fix the bug

```
#elif defined (G_OS_WIN32)
    DWORD measurement;
    int  ret;

    ret = GetLocaleInfo(LOCALE_USER_DEFAULT,
                        LOCALE_IMEASURE | LOCALE_RETURN_NUMBER,
                        (LPTSTR)&measurement,
                        sizeof(measurement) / sizeof(TCHAR) );

    if (ret != 0) /* GetLocaleInfo succeeded */
    {
        switch ((guint) measurement)
        {
            case 0: /* metric */
                return GIMP_UNIT_MM;

            case 1: /* imperial */
                return GIMP_UNIT_INCH;
        }
    }
#endif
```

# Build GIMP

...and all required libraries

## Packages

- 1 iso-codes
- 2 pixman
- 3 cairo
- 4 babl
- 5 gegl
- 6 gimp

## Hosts

- 1 x86\_64-linux-gcc
- 2 i686-w64-mingw32
- 3 x86\_64-w64-mingw32

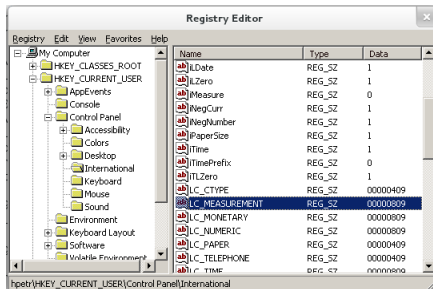
# Test the fix

## GIMP

- No change under Linux (Fedora 17)
- Wine 32bit (regedit)

## Standalone testing application

- Windows XP 32bit
- Windows 7 64bit





# Summary

- Bug **593167** successfully fixed,
- smooth communication in Bugzilla and on IRC,
- acceptable communication delays,
- problematic build,
- patch committed as  
194ef70d7446a627c274135c54498d3092c9b356.



# References



GIMP, *GNU Image Manipulation Program*

URL: <http://www.gimp.org/>



GNOME Bugzilla, *BUG 593167*

URL: [https://bugzilla.gnome.org/show\\_bug.cgi?id=593167](https://bugzilla.gnome.org/show_bug.cgi?id=593167)



GIMP, *bugfix in the git repository*

URL: <https://git.gnome.org/browse/gimp/commit/?id=194ef70d7446a627c274135c54498d3092c9b356>



Ohloh, *Petr Kubiznak*

URL: <https://www.ohloh.net/accounts/yman>