
Subject: Re: [SysInfo - Improvement - Koldo] Better way to find distribution version & more

Posted by [Klugier](#) on Fri, 18 Oct 2013 22:37:53 GMT

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Hello Koldo,

Moreover, I wrote better handling for measuring cpu temperature on GNU/Linux (POSIX?). Now, SysInfo should use "hwmon" when "acpi" fails. Let's look at code:

```
static double GetCpuTemperatureViaAcpi()
{
    FindFile ff;
    if(ff.Search("/proc/acpi/thermal_zone/*")) {
        do {
            if (ff.IsDirectory()) {
                String name = ff.GetName();
                if (name != "." && name != "..") {
                    StringParse str =
LoadFile_Safe(AppendFileName(AppendFileName("/proc/acpi/thermal_zone", name),
"temperature"));
                    str.GoAfter("temperature:");
                    return str.GetDouble();
                }
            }
        } while(ff.Next());
    }

    return Null;
}

static double GetCpuTemperatureViaHwmon()
{
    Vector <double> temps;
    for (FindFile ff(AppendFileName("/sys/class/hwmon/hwmon0/device", "**input")); ff; ff.Next()) {
        if (!ff.IsHidden()) {
            String temp = LoadFile_Safe(ff.GetPath());
            if (!temp.IsEmpty())
                temps.Add((double)StrInt(temp) / 1000.0);
        }
    }

    double sumTemps = 0.0;
    for (int i = 0; i < temps.GetCount(); i++)
        sumTemps += temps[i];

    if (!temps.IsEmpty())
        return sumTemps / (double)temps.GetCount();
}
```

```
else
  return Null;
}

double GetCpuTemperature()
{
  double temp = Null;

  if (temp == (double)Null) temp = GetCpuTemperatureViaAcpi();
  if (temp == (double)Null) temp = GetCpuTemperatureViaHwmon();

  return temp;
}
```

* in this case "static" means that function should be use only in file where it was declared.

P.S.

Toomorrow, I will enclose source file with above improvement.

Sincerely,
Klugier
