textutil.cm

```
Copyright (c) 2012-2016 Seppo Laakko
    http://sourceforge.net/projects/cmajor/
    Distributed under the GNU General Public License, version 3 (GPLv3).
    (See\ accompanying\ LICENSE.\ txt\ or\ http://www.gnu.org/licenses/gpl.html)
    */
// Copyright (c) 1994
// Hewlett-Packard Company
// Copyright (c) 1996
// Silicon Graphics Computer Systems, Inc.
// Copyright (c) 2009 Alexander Stepanov and Paul McJones
using System;
namespace System. Text
    public nothrow string HexEscape(char c)
        return "\\x" + ToHexString(cast<byte>(c));
    public nothrow string HexEscape(wchar c)
        return "\\x" + ToHexString(cast<ushort>(c));
    public nothrow string HexEscape(uchar c)
        return "\x" + ToHexString(cast<uint>(c));
    public nothrow string CharStr(char c)
        switch (c)
             case '\\': return "\\\";
case '"': return "\\\";
case '\'': return "\\";
             case \' \ a' : return \" \ \ a" ;
             case '\b': return "\\b";
             case ' \setminus f': return " \setminus f";
             case '\n': return "\\n";
             case '\r': return "\\r";
             case '\t': return "\\t";
```

```
case \ '\ v':  return \ ''\ \ \ '
        case \sqrt{0}: return "\sqrt{0}";
        default:
             if (IsPrintable(c))
                 return string(c);
             }
             _{
m else}
                 return HexEscape(c);
             }
        }
    }
}
public nothrow string MakeCharLiteral(char c)
    if (c == ',",')
        return string("'\"'");
    return "," + CharStr(c) + ",";
}
public nothrow string MakeWCharLiteral(wchar c)
    if (cast < ushort > (c) < 0x100u)
        return MakeCharLiteral(cast<char>(c));
    else
    {
        return "'" + HexEscape(c) + "'";
}
public nothrow string MakeUCharLiteral(uchar c)
    if (cast < uint > (c) < 0x100u)
        return MakeCharLiteral(cast<char>(c));
    }
    _{
m else}
        return "'" + HexEscape(c) + "'";
public nothrow string StringStr(const string& s)
    string result;
    for (char c : s)
```

```
{
         if (c == '\',')
             result.Append(c);
         else
             result.Append(CharStr(c));
    return result;
}
public nothrow string MakeStringLiteral(const string& s)
    string result("\"");
    result.Append(StringStr(s));
    result. Append ("\"");
    return result;
}
public string Trim(const string& s)
    int b = 0;
    while (b < s.Length() && IsSpace(s[b]))
        ++b;
    int e = s.Length() - 1;
    while (e >= b \&\& IsSpace(s[e]))
        --e;
    return s. Substring (b, e - b + 1);
}
\mathbf{public} \ \mathtt{string} \ \mathtt{TrimAll}(\mathbf{const} \ \mathtt{string} \& \ \mathtt{s})
    string result;
    result.Reserve(s.Length());
    int state = 0;
    for (char c : s)
         switch (state)
             case 0: // skip starting spaces
                  if (!IsSpace(c))
                       result.Append(c);
                       state = 1;
                  break;
```

```
case 1: // collect non-space characters
                 if (IsSpace(c))
                     state = 2;
                 }
                 else
                    result.Append(c);
                 break;
            case 2: // replace spaces in the middle with one space
                character
                 if (!IsSpace(c))
                     result.Append(', ');
                     result.Append(c);
                     state = 1;
                 {\bf break}\,;
             }
        }
    return result;
}
```