## textutil.cm

```
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     */
// 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 CharStr(char c)
         switch (c)
              \mathbf{case} \ '\backslash\backslash '\colon \ \mathbf{return} \ "\backslash\backslash\backslash ";
              case ',',': return "\\\";
              case '\'': return "\\\'';
              case '\a': return "\\a";
              \mathbf{case} \ \ \verb|`\b|': \ \mathbf{return} \ \ \verb|``\backslash b";
              case '\f': return "\\f";
              case '\n': return "\\n";
              case \ '\ 'r': return "\ '\ 'r";
              case '\t': return "\\t";
              case '\v': return "\\v";
              case '\0': return "\\0";
              default:
                   if (IsPrintable(c))
                       return string(c);
                   else
```

```
return HexEscape(c);
           }
       }
   }
}
public nothrow string MakeCharLiteral(char c)
    if (c == ',",')
        return string("'\"'");
    return "'" + CharStr(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]))
        —е;
    return s. Substring (b, e - b + 1);
```

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