

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)  
        {  
            case '\\': return "\\\\";  
            case '\"': return "\\\"";  
            case '\\': return "\\\"";  
            case '\\a': return "\\a";  
            case '\\b': return "\\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  
                {  

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        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]))
    {
        --e;
    }
    return s.Substring(b, e - b + 1);
}

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}

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;
                }
                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;
                }
                break;
            }
        }
    }
    return result;
}
}

```