

Reinitializes a byte array to the given value in an optimized way: byteArraySet

```
/*
 * CVS identifier:
 *
 * $Id: ArrayUtil.java,v 1.10 2000/09/05 09:25:15 grosbois Exp
 *
 * Class: ArrayUtil
 *
 * Description: Utililities for arrays.
 *
 *
 *
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 *
 * This software module was originally developed by Raphaël
Grosbois and
 * Diego Santa Cruz (Swiss Federal Institute of Technology-
EPFL); Joel
 * Askelöf (Ericsson Radio Systems AB); and Bertrand Berthelot,
David
 * Bouchard, Félix Henry, Gerard Mozelle and Patrice Onno
(Canon Research
 * Centre France S.A) in the course of development of the
JPEG2000
 * standard as specified by ISO/IEC 15444 (JPEG 2000 Standard).
This
 * software module is an implementation of a part of the JPEG
2000
 * Standard. Swiss Federal Institute of Technology-EPFL,
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```

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```

*
*
*
*/
using System;
namespace CSJ2K.j2k.util
{

///

This class contains a colleaction of utility static methods
for arrays.
///
///
public class ArrayUtil
{

///

The maximum array size to do element by element copying,
larger
/// arrays are copyied in a n optimized way.
///
public const int MAX_EL_COPYING = 8;

///

The number of elements to copy initially in an optimized array
copy
public const int INIT_EL_COPYING = 4;

///

Reinitializes a byte array to the given value in an optimized
way. If
/// the length of the array is less than MAX_EL_COPYING, then
the array
/// is set element by element in the normal way, otherwise the
first
/// INIT_EL_COPYING elements are set element by element and
then

```

```

/// System.arraycopy is used to set the other parts of the
array.
///
///
/// The array to set.
///
/// /// The value to set the array to.
///
///
///
/// public static void byteArraySet(byte[] arr, byte val)
{
int i, len, len2;

len = arr.Length;
// Set array to 'val' in an optimized way
if (len < MAX_EL_COPYING) { // Not worth doing optimized way
for (i = len - 1; i >= 0; i-)
{
// Set elements
arr[i] = val;
}
}
else
{
// Do in optimized way
len2 = len >> 1;
for (i = 0; i < INIT_EL_COPYING; i++) { // Set first elements
arr[i] = val; } for (; i <= len2; i <

```