

The **Lossy JPEG2000 Quantization Scheme** also has one fixed parameter,  $\tau$ . After wavelet transformation, a "step" quantization

$$q(x_i) = \text{sgn}(x_i) \cdot \sigma \cdot \left\lfloor \frac{|x_i|}{\sigma} \right\rfloor$$

is applied to each region with a parameter  $\sigma$  determined as follows:

$\frac{\tau}{2}$	$\tau$
$\tau$	$2\tau$

$n = 1$



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is applied to each region with a parameter  $\sigma$  determined as follows:

$\frac{\tau}{4}$	$\frac{\tau}{2}$	$\tau$
$\frac{\tau}{2}$	$\tau$	
$\tau$		$2\tau$

$$n = 2$$



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is applied to each region with a parameter  $\sigma$  determined as follows:

$\frac{\tau}{8}$	$\frac{\tau}{4}$	$\frac{\tau}{2}$	$\tau$
$\frac{\tau}{4}$	$\frac{\tau}{2}$		
$\frac{\tau}{2}$		$\tau$	$2\tau$
$\tau$			

$$n = 3$$



The quantization function for a given region:

