NAME
  wallis – Wallis filter

SYNOPSIS
  wallis [−f filtersize] [−m mean] [−s stdev] [−a alfa] [−l limit]

DESCRIPTION
  wallis performs a Wallis filtering on a byte image sequence. fwallis performs a Wallis filtering on a float image sequence. This equation is used:

  \[ \text{pixel}(i,j) = \alpha \times \text{mean} + (1 - \alpha) \times m(i,j) + (\text{pixel}(i,j) - m(i,j)) \times \text{stdev}/(\text{stdev}/\text{limit} + s(i,j)) \]

  \( \text{m}(i,j) \) is the local mean and \( s(i,j) \) is the local standard deviation.

  Input sequence must be byte (wallis) or float (fwallis) and the output sequence is float.

OPTIONS
  −f the local window size; default is 3 (x3)
  −m the desired value of mean; default is 127 (wallis) or 0.0 (fwallis)
  −s the desired value of standard deviation; default is 10.0 (wallis) or 50.0 (fwallis)
  −a the value of alfa; default is 0.0
  −l the value of limit; default is 10.0

SEE ALSO
  mask(1), fmask(1)

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