

Title (en)

SYSTEM AND METHOD FOR HISTOGRAM COMPUTATION USING A GRAPHICS PROCESSING UNIT

Title (de)

SYSTEM UND VERFAHREN ZUR HISTOGRAMMBERECHNUNG UNTER VERWENDUNG EINER GRAFIKVERARBEITUNGSEINHEIT

Title (fr)

SYSTÈME ET PROCÉDÉ DE CALCUL D'HISTOGRAMME À L'AIDE D'UNE UNITÉ DE TRAITEMENT GRAPHIQUE

Publication

EP 3022682 A2 20160525 (EN)

Application

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Priority

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Abstract (en)

[origin: WO2015009294A2] A method and system for obtaining a histogram and related statistical values from a data set of texels is disclosed. A processing device receives from a first buffer, a data set of texels. The data set has a dimensionality D of at least two and each texel contains a value. The processing device sorts the data set into a point list of coordinates, wherein a point in the point list corresponds to a texel location in the data set. The processing device reduces the dimensionality of the point list by arranging points in the point list according to an N-1 dimensional dominance. The processing device performs a raster operation on each associated value of the arranged points to obtain at least one value. The processing device is to output the at least one value to a second buffer. The processing device may be a graphics processing unit.

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