

For informations:

Andrea Tonin
Luce Digitale
www.lucedigitale.com
info@lucedigitale.com
Tel/Fax +39 0425 49 46 47
Cell: +39 328 65 12 559



www.lucedigitale.com



www.xteamssoftware.com

X3D Engine



3D Engine for games, professional and educational applications, virtual reality. The 3D Engine of ours videogames and applications is written entirely in C++ in order to obtain high performances, extreme quality and portability on all the platforms, it works both in in full screen and window mode. The code is entirely developed inside our company.

Technical features:

- Direct X 8 /9 /Open GL
- 10.000.000 polygons with texture on P4 2,8 /256 MB /64 MB video
- Support PC GPU NVidia, Ati /Game Boy Advance /Nintendo DS /Pocket PC /PDA
- Antialiasing x2 /x3 /x4 /x5 /x6
- Support Vertex Color /Vertex Shader /Pixel Shader
- Import 3D 3DS, X
- Import textures BMP, JPG, PCX, TGA, png as big as 1024x1024 pixel
- Support Video decompression and streaming MPG1, MPG2, QTime, AVI, DIVX
- Encrypted data in compression and decompression
- Multi monitor support (graphic resolution as big as 1600x1200 pixel - Multiview until 32 divisions)
- Modular architecture

Graphic effects:

- Transparency
- Bump Mapping
- Normal Map
- Lighting Map
- Multitexturing (until 4 Layer)
- Max 16 lights in time realecon volumetric shadows in real time
- Volumetric texture
- Particle system

Artificial intelligence:

- Simulation of realistic humans behaviours
- Behaviors for characters equipped with wings (flies, butterflies, gulls, dredge etc...)

Multiplayer:

- Modem
- Lan

Optimization:

- Cutting algorithm (Algoritmo di culling, Binary Space Partition)

Animations:

- Skinning animation
- Tweening animation
- Morphing

Input:

- Keyboard
- Joystic (analog, digital)
- Mouse
- Camera, Webcam
- Microphone

Sound:

- 44100 16 bit stereo
- 3D positional audio
- Surround effect 5.1
- Direct support of WAV, RAW, MP3 format.

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