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Dynamic Simulation of Splashing Fluids

Dynamic Simulation of Splashing Fluids James F O'Brien and Jessica K Hodgins College of Computing Georgia Institute of Technology Atlanta, GA 30332-0280 [obrienj | jkh]@ccgatechedu Abstract: In this paper we describe a method for modeling the dynamic behavior of splashing fluids The model simulates the behavior of a fluid when ob-

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32 Dynamic simulation of Splashing Fluids [5] O'Brien simulation model consists of three components: the main volume, the free surface of the uid and the disconnected component of the uid In the main volume, the water body is divided into a grid of connected vertical columns Fluid motion is simulated as the interchange

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these papers tend to gloss over the implementation details dynamic simulation of splashing fluids 30332 0280 obrienj jkhccgatechedu abstract in this paper we describe a method for modeling the dynamic behavior of splashing fluids the model simulates the behavior of a fluid when objects impact

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Table 1: Performance of k-means clustering
Number of Particles 350k 550k 12m 30m k-means Clustering 291ms 4004ms 644ms 1386ms Time Step Update (per mini step) 848ms 105ms 291ms 790ms

Fast Water Simulation for Games Using Height Fields

[Müller03] M Müller et al, Particle-Based Fluid Simulation for Interactive Applications, SCA 03, pages 154-159 [O'Brien95] J O'Brien and J Hodgins, Dynamic simulation of splashing fluids, In Computer Animation 95, pages 198-205 [Premoze03] S Premoze et al, Particle based simulation of fluids, Eurographics 03, pages 401-410

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that integrates fluid-dynamic simulation in the early stages of the could fit in the design phase of a real gear box This phase lasts between 2 and 3 weeks, its aim is to produce Oil splashing, Lubrication and Churning losses prediction by moving Particle Simulation method fluids are represented by particles Governing equations

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simulation models inspired by approximations to physics-based models used in computer graphics, video games, and computational fluid dynamics: the "Intuitive Fluids Engine" (IFE) model, based on smooth particle hydrodynamics (Fig 3), is the most physically appropriate for our tasks, although it is also the most computationally complex

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