FLUENT ACTIVITIES AT TUDELFT

TURBULENCE

AHD	k-e			Re stress		
Energy	k-e			Re stress		
API	k-e			Re stress		
SW	k-e			Re stress	Durbin	Hanjalic, Kenjeres
Kramers	k-e			Re stress		
Aerospace	k-e	RNG k-e	k-w	Re stress		

ACTIVITIES

GRIDS, PARALLEL, USER SUBROUTINES

	# grid points	parallel	user subroutine
AHD	$1E5 - 1E6$		Y
Energy	$1E5 - 1E6$		YY
API	$1E5 - 1E6$		
SW	$2E4 - 2E6$		
Kramers	$1E5 - 1E6$	Y	
Aerospace	$1E5 - 3E6$		

SPECIAL ACTIVITIES

AHD	bluff bodies	micro flows	moving grids	multi-phase fluid-particle, VOF	strong sw
Energy	turbines	complicated combustion (NOx)	fuel cells	small coal furnace	nuclear re
API	XXX	XXX			strong sw
SW	grid generation for other codes	combustion		multi-phase multi-fluid, part-fluid	
Kramers	DNS, LES	porous media	mixers	multi-phase multi-fluid, part-fluid, VOF	
Aerospace	streamlined bodies (aeroplanes, cars)	incompressible			

EXPERIENCE WITH OTHER CODES

AHD	CFX4, CFX5	FLOW3D	
Energy			
API			
SW	X-STREAM	BUOYFLOW	
Kramers			
Aerospace			

OTHER PRE-PROCESSOR, POST-PROCESSOR, SOLVER

	PRE	POST	SOLVER
AHD		TECPLOT tecplot export	
Energy			
API			
SW			T-REX
Kramers			
Aerospace	Rhinoceros surface modeler IGES file exch with gambit		