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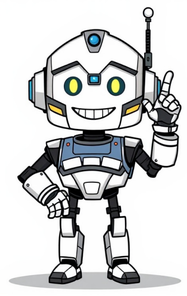

#define CGMOTION macro for define UDF parallel setting small editors searched some online materials, and according to personal experience, hope to help everyone. Method one: using DEFINE_CG_MOTION macro to specify a specific dynamic region's motion. The macro can specify the line speed and angular speed at each time step. ANSYS FLUENT updates the node position of the dynamic region based on these speeds. The macro is only used for compiled types.2、Syntax explanation DEFINE_CG_MOTION(name,dt,vel,omega,time,dtime) (1)name:macro name, specified by users, needs to follow the UDF macro naming rules.(2)dt : Dynamic_Thread *dt,is a pointer to the user-defined dynamic grid property structure.(3)vel : real vel[] , speed vector, vel[0] is the x-direction line speed, vel[1] is the y-direction, and vel[2] is the z-direction.(4)omega : real omega[] , angular speed vector. The index is 0~2, respectively represents the x, y, z directions.(5)time : real , representing the current time.(6)dtime : real , representing the time step of the macro returned type: void,this macro contains six parameters, where name is user-defined, dt is dynamic grid property structure. , vel and omega are speed vector, dtime is time step . It can be used to customize various physical quantities. Method two: ... (omitted) Method three: ... (omitted) Method four: ... (omitted) #define PROFIL custom pressure surface custom x direction speed surface, turbulence energy, and dispersion rate (4.3.5) DEFINE_PROFILE fix flow variables DEFINE_PROPERTY custom viscosity MULTIPLE UDf CONNECTED IN ONE SOURCE PROGRAM (4.3.7) DEFINE_SOURCE custom source term (4.3.8) DEFINE_SR_RATE custom surface reaction rate DEFINE_TURB_PREMIX_SOURCE custom turbulent flame speed and source term in pre-mixing combustion model DEFINE_TURBULENT_VISCOSITY standard k-e model custom turbulence viscosity RETURN quality flux of given face (20) CUSTOMIZE UNSTEADY TIME DERIVATIVES Note: DEFINE_VR_RATE is only for reference, if you need to solve a specific problem (especially in fields like law and medicine), please consult relevant experts. Author statement: This article is based on true experience, and it has not been authorized, please do not reprint. Note: The macro is not checked for correctness, it can be arbitrary. It can control the compilation flow based on constants. You can replace any part of the code, not only values.

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