GLOBAL CONSTANTS

SOLVER	
dim	DOF*nodes
step_final	Steps (each block)
BODIES	Number of bodies
Output	Name of the file (each block)
Element	Element Type
NR_iterations	Iterations of Newton Raphson
d_tolerance	Displacement tolerance
r_tolerance	Forces tolerance
NR	Update K every NR steps
IMPLICIT	Implicit 1 or explicit 0
time_step	Time step without time factor
Time_final	Final time
DYN	Dynamic or static
OutputType	List of types of outputs
time_factor	Time factor to update time step
SAVE_F	Save file each SAVE_F
SAVE_I	Save vector each SAVE_I
INIT_file	Initial file name
UW	Formulation U-UW-Upw...
PHASES	U-W-Pw and number of each of them
FRAC	Fracture flag
SMALL	Small strain flag
BLOCKS	Total blocks
thickness	Thickness
TYPE	OTM-MPM-FEM
INIT_STEP	Number of the initial step
INITIAL_PORE_PRESSURE	Initial conditions
Pstab	Stabilization parameter U-Pw
F_BAR_W	F-bar multiplier (water)
F_BAR	F-bar multiplier
B_BAR	B-bar flag
AXI	Axisymmetric flag
LIN	Linearization flag
REMAPPING	Remapping flag

LOAD	
ext_forces_s	External forces vector
ext_acce	Exernal acceleration vector
value	Multiplier of very step
size	Number of external forces
ext_forces_w	External water forces vector

Geometry	
elem	Connectivity
elem_c	Corner Connectivity (Quadratic elements)
patch_con	Patch connectivity
patch_el	Patch element
Area	Initial area
Area_p	Area of the patch
x_0	Initial coordinates
ELEMENT	Element type
elements	Number of elements
nodes	Number of nodes
mat_points	Number of material points
sp	Spatial dimension
df	Degrees of freedom per nodes
xg_0	Initial material point coordinates
H	Maximum height
h_ini	Initial mesh size
h_nds	Initial mesh size in nodes
node_connect	Element here node n is in
material	Material id of every mat_point
b_dim	Dimension of b matrix
s_dim	Dimension of stress vector
f_dim	Dimension of def. gradient vector
element_near	Adyacent elements
body	mat_point belongs to this body

BOUNDARY	
b_mult	Multiplier of every step
size	Number of boundaries
vad	Velocity vector (without multiplying)
dad	Displacement vector (without multiplying)
constrains	Constrained flag
tied	tied nodes
Type	Type of boundary condition

MATERIAL	
MAT	Material parameters
MODEL	Flag of the employed model / Fracture
number	Number of material models

VARIABLE	
g	Gravity

STRUCTURE ARRAYS

TIME	
af	alpha f (Time integration scheme)
am	alpha m (Time integration scheme)
alpha / beta	alpha (Time integration scheme)
delta / gamm	delta (Time integration scheme)
theta	theta (Time integration scheme)

Mat_state	
F	Deformation gradient
Be	Finger tensor
Sigma	Cauchy stress tensor
fint	Internal forces
k	Permeability
Pw	Pore pressure
Es	Small strain tensor
Es_e	Elastic small strain tensor
Es_w	Water small strain tensor
dPw	Pore pressure gradient
Fw	Water deformation gradient
w	Strain energy
Fw	Damage (0,1)

MATRIX	
mass	Mass
damp	Damping
l_mass	Lumped mass
l_mass_w	Lumped mass of the water
l_mass_wn	Lumped mass of the water*n
l_damp	Lumped damping

Disp_field	
d	Displacements
a	Accelerations
v	Velocities
x_a	Nodal position

Int_var	
dgamma	Increment of plastic multiplier
gamma	Eq. Shear Plastic strain
epsv	Eq. Volumetric plastic strain
Sy	Size of the yield surface
Sy_r	Reference yield surface (viscosity)
H	Hardening (PZ)
eta	eta_B (PZ)
P0	Initial pressure / vol-shear strain

STEP	
ste	Current step
ste_p	Current step plot
BLCK	Block of calculation
t	time
dt	time increment
D	Dissipated energy
FAIL	step failed

GLOBAL	
d	Displacements
a	accelerations
v	velocities
OutputList	Output results
dgamma	Increment of plastic multiplier
gamma	Dev. Plastic multiplier
epsv	Vol. Plastic multiplier
gamma_nds	Dev. Plastic multiplier in the nodes
Sy	Size of the yield surface
Sy_r	Reference yield surface (viscosity)
H	Hardening (PZ)
eta	eta_B (PZ)
pw	Pore pressure
dpw	Pore pressure gradient
Ps	Invariant P
Qs	Invariant Q
F	Deformation gradient
Be	Finger tensor
Sigma	Cauchy stress tensor
Es	Total strain
Es_p	Plastic strain
xg	position of material points
Fw	Water deformation gradient
Es_w	Water strain
tp	Plot time
J	jacobian
ste_p	Current plot step
w	Strain energy
status	Damage (0,1)
E	Energy D(dissipated) - W (strain) - K (kinetic)
Force	Summation of forces of the specimen

MAT_POINT	{BLOCK}
xg	Material point coordinates
element	Element where is the mat point
near	Neighbor nodes
N	Shape functions
B	B matrix (Derivatives)
EP	Stretches
J	Jacobian
w	Weight (Gamma in LME)
xi	Xi coordinates (Lambda in LME)
near_p	Prohibited near nodes (separation between)
epsilon	Epsilon neighborhood (Eigenerosion)