GLOBAL CONSTANTS

SOLVER	
dim	Dimension
step_final	Steps
SAVE_F	Save file each SAVE_F
SAVE_I	Save vector each SAVE_I
NR_iterations	Iterations of Newton Raphson
abs_tolerance	Abslute tolerance
rel_tolerance	Relative tolerance
NR	Update K every NR steps
IMPLICIT	Implicit 1 or explicit 0
time_step	Time step without time factor
time_factor	Time factor to update time step
Time_final	Final time
INITIAL_d	Initial displacements
UW	Formulation U-UW-Upw...
INIT_file	Initial file name
thickness	Thickness
TYPE	OTM-MPM-FEM
INIT_STEP	Initial step
INITIAL_COND	Initial conditions
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
VARIABLE	
rho_w	Density of the water
g	Gravity
LOAD	
ext_forces_s	External forces vector
ext_acce	Exernal acceleration vector
load_mult	Multiplier of very step
size	Number of external forces

Geometry	
elem	Connectivity
patch_con	Patch connectivity
patch_el	Patch element
Area	Initial area
Area_p	Area of the patch
x_0	Initial coordinates
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_ini	Initial mesh size
h_nds	Initial mes size in nodes
node_connect	Element here node n is in
b_dim	Dimension of b matrix
s_dim	Dimension of stress vector
f_dim	Dimension of def. gradient vector
element_near	Adyacent elements
BOUNDARY	
b_mult	Multiplier of every step
size	Number of boundaries
vad	Velocity vector (without multiplying)
dad	Displacement vector (without multiplying)
constrains	Constrained flag
MATERIAL	
MAT	Material parameters
MODEL	Flag of the employed model
number	Number of material models
n	Number of material of node n
e	Number of material of element e

STRUCTURE ARRAYS

TIME	
t	Time in each step
tp	Time in each plot step
af	alpha f (Time integration scheme)
am	alpha m (Time integration scheme)
alpha	alpha (Time integration scheme)
delta	delta (Time integration scheme)
theta	theta (Time integration scheme)
gamma	gamma (Time integration scheme)
Mat_state	
F	Deformation gradient
Be	Finger tensor
Sigma	Cauchy stress tensor
fint	Internal forces
k	Permeability
Pw	Pore pressure
Fw	Water deformation gradient
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	Plastic multiplier
Sy	Size of the yield surface
Sy_r	Reference yield surface (viscosity)
P0	Initial pressure

GLOBAL	
d	Displacements
a	accelerations
v	velocities
J	jacobian
dgamma	Increment of plastic multiplier
gamma	Plastic multiplier
Sy	Size of the yield surface
Sy_r	Reference yield surface (viscosity)
P0	Initial pressure
F	Deformation gradient
Be	Finger tensor
Sigma	Cauchy stress tensor
fint	Internal forces
k	Permeability
Pw	Pore pressure
Fw	Water deformation gradient
Es	Total strain
Es_p	Plastic strain
OUTPUT	
number	Number of output lists
type	First column (1 load, 2 reaction)
	Second column: number of applied load
ref_list	Ones in nodes where calculate reaction
list	Vector filled with inst values
inst	Instantaneous vale of the output
name	Name of the output file
MAT_POINT	
xg	Material point coordinates
element	Element where is the mat point
near	Neighbor nodes
N	Shape functions
B	B matrix (Derivatives)
EP	Streches
J	Jacobian
w	Weight (Gamma in LME)
xi	Xi coordinates (Lambda in LME)