	Enitialize storage for previous time steps.
•	1 2 0 1 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1
	DEVSO, HO HO HO Internal stress variables
	L etastic stress
	C 6 two 110 241623
	Initialize material constants based on Abagus per (Garimella, 20
	9, = 0.65425, 9, = 0.0149
	7, = 0.0066940, 7, = 0.15642
	Note:
	set K1 = K2 = 0, so that Abagus does not apply viscosity to
	hydrostatic stress.
	W44.05 ( W(1 C ) 1. 603 .
•	convert material constants to Kaliske notation.
	N A 9-
	$9\omega + \geq g_1 = 1 \rightarrow g_{\infty} = 1 - g_1 - g_2 \rightarrow \gamma_1 = \frac{g_1}{g_{\infty}}$
	convert material constants to Kaliske notation. $g_{\infty} + \sum_{i=1}^{N} g_i = 1 \rightarrow g_{\infty} = [-g_i - g_z] \rightarrow \gamma_i = \frac{g_i}{g_{\infty}}$ (Abaqus)  LAbagus
	L A bagus
	L Kaliske
•	Calculate elastic PKZ stress at current time 50.
•	Calculate = = F for current time.
•	Split 5 into deviatoric and spherical components wirit. f
	reference configuration.
	SPH 5 0 = 3 [C: 50+1] C-1

			<u> </u>	_	[ ~	-,,,	= 0										
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		n+(	I		<i>γ</i> Δ	τ\.,	n		1 -	exp	$\left(-\frac{\Delta}{T}\right)$	<u> </u>		0+(	0.5.	e u	7
	<u> </u>	j	= 6	9×s	(- \frac{2}{\tau}	} ∫ ∏	7 +	$\gamma_{\rm j}$		Λ-1	· · · ·	J - L	DEA 5	0	UE!	\\   ≤ 0	J
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	• 6	λl	cula	te	the	mod	ifie	d de	eu i at	oric	PKZ	. st	ress	DEN	1 <u>5</u> n+	. <b>l</b>	
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	<u> </u>	Λf	-(	C D	H § 6	v+( _	- D	ru s	n+1	Fin	al v	ersio	n U	sed	in c	ode	
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	مل ا																
!	Vote	_	<i>(</i> )	6 . 10 .		_,			ملاح	o 10	c+ c	۲۵۶	a I	:++10	dif	fece	۱ <i>ナ.</i>
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	der	, ,	<u>T</u> nt	l = :	Fatl	DEV :	5 141	(Fª	†1) <sup>T</sup>								
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					υſ					1 7							

Test	Problem					
	10.	n m Moone	y-Rivlin.			
1 <sub>L</sub>	· V					
<u>v</u>	1					
47	= 5 mm					
	σ <sub>x</sub>	×	0,2	2	R to	+
Δt	EEMA	ABAQUS	EEMA	ABAQUS	EEMA	ABAQUS
0.001	- 2,776.26	- 2,280.48	34,651.3	35,147,1	2.28537	2.341204
0,001		_ 2,892,54		34,535	single prec. - double prec.	2.302516
0.010	- 27.838	-14.337	24,207.3	24,222.2	1.61367	1.614392
0.010		-28.9317		24,206.2		1.613756
0.100	- 0.285623	134.526	14241.7	14,384.8	0.949451	0.957314
0.100		- 0.29577		14,241.7		0.949452
1.000	-0.0036	-28.8369	13,299.5	13,334.6	0.886638	0.889314
1,000		- 0.00364687		13,299.5		0.886636
10.000	-0.000114	-22.9668	13,207.7	14,355.6	0.880518	0.939071
10.000		-0.0001058	16	13,207.7		0.880516
20.000	- 0.00050	- \$5, 6562	13,203.2	17,371.1	0.880213	1.034663
20.000		-0.0000462		13,203.2		0.880212
	<u></u>					
: <u>ک</u> = ع	= 5 mm - 3	, E= 0.5				
· Δε Δ ε						
4						