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Cycle I

P1 - Compute Hydro Variable Sopes

P2 = Advect Hydro Variables to st

 $U_{i}^{*} = U_{i}^{n} - \frac{\Delta t}{4\Delta x} \left( F_{i}^{n} - F_{i}^{n} \right)$ 

 $P3 = 4 p^{n+4} \left( \frac{u^{n+4} + k}{i} \right) - 1 \left[ \frac{v}{c} \left( F - \frac{4}{3} E u \right) \right]^{n}$ 

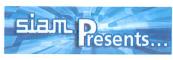
+ 1 ( - = E N) 1+2

 $P4 = 4 \left( \frac{E^{n+4}}{E} \right) = -\frac{1}{2} \left( \frac{2E^{n+4}}{2E} \right)$ 

+ 0 n+ = k [ a ( n+ = k+1) + = n+ = k+1 ]

 $+\frac{r_{ac}}{2}\left[a(T^{n})^{t}-E_{r}^{n}\right]$ 

- (F- = En) w] h+2, k



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$$\frac{4}{E}\left(\frac{E}{E}\right) = -\frac{1}{4}\left(\frac{1}{2}\left(\frac{1}{2}\right)^{4} - \frac{1}{2}\left(\frac{1}{2}\right)^{4} - \frac{1}{2}\left(\frac{1}{2}\right)^{4}\right)$$

		10			
- n	- 14	" 7			- n+5 6
$(T \cap C)$	F I		. 0 /=	1	) 0)
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Advert Hydro Variables

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		n+a k+s
2 (+4/2, k+1 KK)	OCC/ aTT-E	
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Cycle 2
Predictor = just like Cycle / predictor
except no note
CI adrest Hydro Variables
1 2 0 + ( = n+34
CZ: Up hate Monenten Dapontoni
$\frac{2f^{n+1}(n+1,k+1)}{(n+1,k+1)} * \times k = \left(\frac{1}{2}\left(\frac{1}{2}-\frac{1}{2}E_{N}\right)\right)^{n+2},k$
C3: Fritz = -1 (0Fritz) = -1 (
2 (aT-F) ) + 3 (a ( ( T)+1, b) - E, n+1, k+1)
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$$E^{n+i,k+i}=n=-\frac{2}{3}\left[\sigma_{ac}(aT^{4}-E_{r})\right]^{n+4}$$

$$-\frac{2\left(\sigma_{L}\left(F-\frac{4}{3}En\right)u\right)^{h+\frac{1}{4}}\frac{1}{3}\left[\frac{\sigma_{L}\left(F-\frac{4}{3}En\right)u\right]^{n+l/k}}{3\left[\frac{\sigma_{L}\left(F-\frac{4}{3}En\right)u\right]^{n+l/k}}$$

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