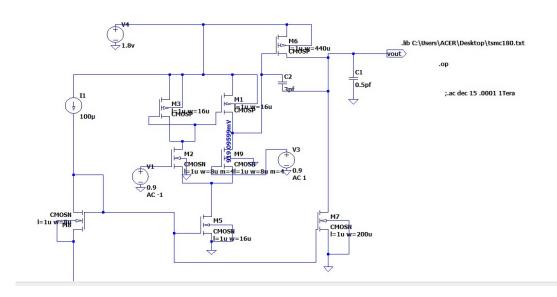
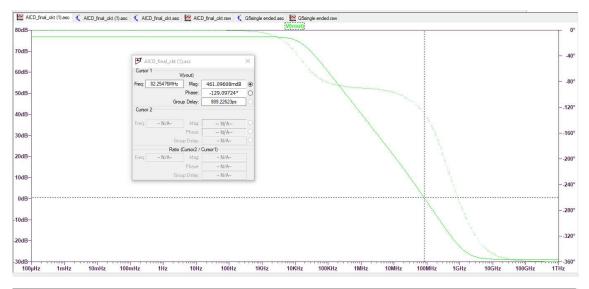


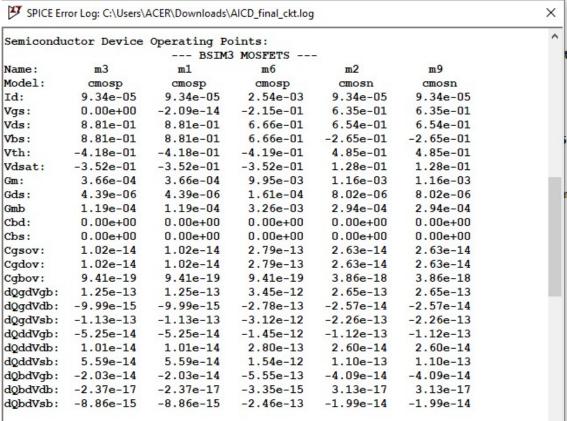
Gmin step	ping succeed	ded in findi	ng the operat	ting point.		^
Semicondu	ctor Device	Operating Po	oints:			
		_	3 MOSFETS	21		
Name:	m3	m1	m6	m2	m9	
Model:	cmosp	cmosp	cmosp	cmosn	cmosn	
Id:	9.34e-05	9.34e-05	2.54e-03	9.34e-05	9.34e-05	
Vgs:	0.00e + 00	-2.09e-14	-2.15e-01	6.35e-01	6.35e-01	
Vds:	8.81e-01	8.81e-01	6.66e-01	6.54e-01	6.54e-01	
Vbs:	8.81e-01	8.81e-01	6.66e-01	-2.65e-01	-2.65e-01	
Vth:	-4.18e-01	-4.18e-01	-4.19e-01	4.85e-01	4.85e-01	
Vdsat:	-3.52e-01	-3.52e-01	-3.52e-01	1.28e-01	1.28e-01	
Gm:	3.66e-04	3.66e-04	9.95e-03	1.16e-03	1.16e-03	
Gds:	4.39e-06	4.39e-06	1.61e-04	8.02e-06	8.02e-06	
Gmb	1.19e-04	1.19e-04	3.26e-03	2.94e-04	2.94e-04	
Cbd:	0.00e+00	0.00e + 00	0.00e+00	0.00e+00	0.00e+00	
Cbs:	0.00e+00	0.00e + 00	0.00e+00	0.00e+00	0.00e+00	
Cgsov:	1.02e-14	1.02e-14	2.79e-13	2.63e-14	2.63e-14	
Cgdov:	1.02e-14	1.02e-14	2.79e-13	2.63e-14	2.63e-14	
Cgbov:	9.41e-19	9.41e-19	9.41e-19	3.86e-18	3.86e-18	
dQgdVgb:	1.25e-13	1.25e-13	3.45e-12	2.65e-13	2.65e-13	
dQgdVdb:	-9.99e-15	-9.99e-15	-2.78e-13	-2.57e-14	-2.57e-14	
dQgdVsb:	-1.13e-13	-1.13e-13	-3.12e-12	-2.26e-13	-2.26e-13	
dQddVgb:	-5.25e-14	-5.25e-14	-1.45e-12	-1.12e-13	-1.12e-13	
dQddVdb:	1.01e-14	1.01e-14	2.80e-13	2.60e-14	2.60e-14	
dQddVsb:	5.59e-14	5.59e-14	1.54e-12	1.10e-13	1.10e-13	
dQbdVgb:	-2.03e-14	-2.03e-14	-5.55e-13	-4.09e-14	-4.09e-14	
dQbdVdb:	-2.37e-17	-2.37e-17	-3.35e-15	3.13e-17	3.13e-17	
dQbdVsb:	-8.86e-15	-8.86e-15	-2.46e-13	-1.99e-14	-1.99e-14	

SPICE Error Log: C:\Users\ACER\Downloads\AICD_final_ckt.log Name: m8 m7 m5 Model: cmosn cmosn cmosn Id: -1.00e-04 2.54e-03 1.87e-04 0.00e+007.37e-01 7.37e-01 Vqs: -7.37e-01 1.13e+00 2.65e-01 Vds: 0.00e + 00Vbs: -7.37e-01 0.00e+00 Vth: 4.07e-01 4.05e-01 4.09e-01 2.37e-01 2.39e-01 2.36e-01 Vdsat: 1.04e-03 5.84e-04 1.48e-02 Gm: Gds: 5.22e-06 1.02e-04 1.18e-04 1.59e-04 4.03e-03 2.86e-04 Gmb 0.00e+00 0.00e+00 0.00e+00 Cbd: Cbs: 0.00e+000.00e + 000.00e + 006.58e-15 1.65e-13 1.32e-14 Cqsov: 6.58e-15 1.65e-13 1.32e-14 Cgdov: Cgbov: 9.66e-19 9.66e-19 9.66e-19 dQqdVqb: 6.74e-14 1.68e-12 1.37e-13 -6.44e-15-1.60e-13 dQgdVdb: -1.58e-14 dQqdVsb: -5.81e-14 -1.45e-12 -1.16e-13 dQddVqb: -2.83e-14 -7.07e-13 -5.86e-14 dQddVdb: 6.51e-15 1.62e-13 1.59e-14 dQddVsb: 2.87e-14 7.17e-13 5.71e-14 -1.08e-14 -2.70e-13 -1.97e-14 dQbdVgb: -2.75e-15 dQbdVdb: -2.00e-18 4.38e-16 dQbdVsb: -5.90e-15 -1.48e-13 -1.16e-14 Date: Tue Jan 25 15:21:19 2022 Total alamand time. 0 060 accorde

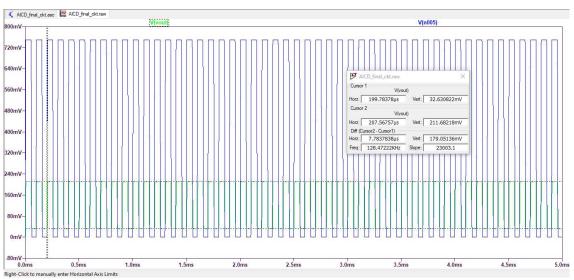
Open loop

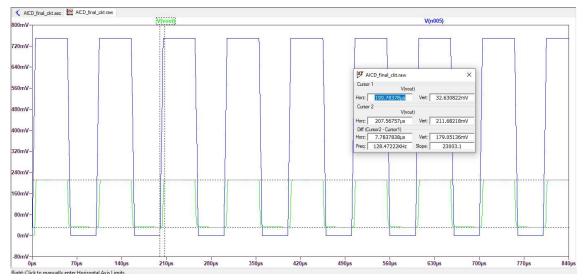


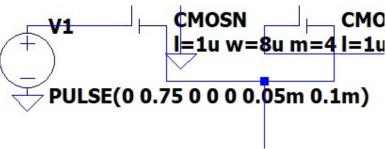




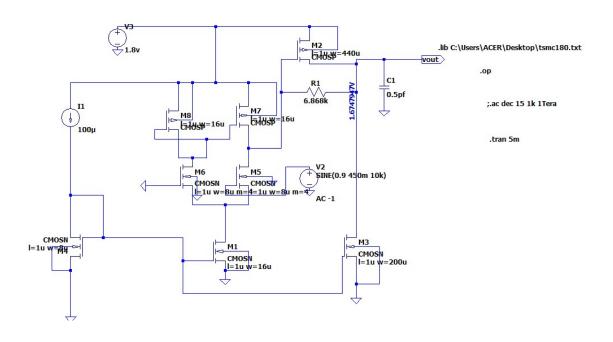
Name:	m8	m7	m5	•
Model:	cmosn	cmosn	cmosn	
Id:	-1.00e-04	2.54e-03	1.87e-04	
Vqs:	0.00e+00	7.37e-01	7.37e-01	
Vds:	-7.37e-01	1.13e+00	2.65e-01	
Vbs:	-7.37e-01	0.00e+00	0.00e+00	
Vth:	4.07e-01	4.05e-01	4.09e-01	
Vdsat:	2.37e-01	2.39e-01	2.36e-01	
Gm:	5.84e-04	1.48e-02	1.04e-03	
Gds:	5.22e-06	1.02e-04	1.18e-04	
Gmb	1.59e-04	4.03e-03	2.86e-04	
Cbd:	0.00e+00	0.00e+00	0.00e+00	
Cbs:	0.00e+00	0.00e+00	0.00e+00	
Cgsov:	6.58e-15	1.65e-13	1.32e-14	
Cgdov:	6.58e-15	1.65e-13	1.32e-14	
Cgbov:	9.66e-19	9.66e-19	9.66e-19	
dQgdVgb:	6.74e-14	1.68e-12	1.37e-13	
dQgdVdb:	-6.44e-15	-1.60e-13	-1.58e-14	
dQgdVsb:	-5.81e-14	-1.45e-12	-1.16e-13	
dQddVgb:	-2.83e-14	-7.07e-13	-5.86e-14	
dQddVdb:	6.51e-15	1.62e-13	1.59e-14	
dQddVsb:	2.87e-14	7.17e-13	5.71e-14	
dQbdVgb:	-1.08e-14	-2.70e-13	-1.97e-14	
dQbdVdb:	-2.00e-18	4.38e-16	-2.75e-15	
dQbdVsb:	-5.90e-15	-1.48e-13	-1.16e-14	



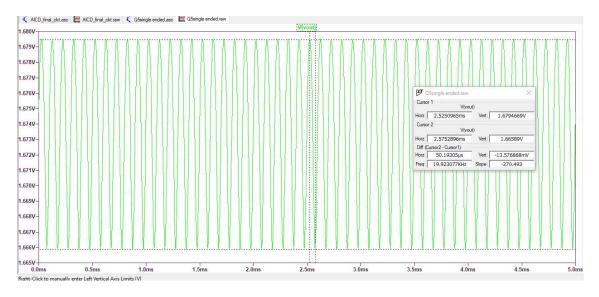




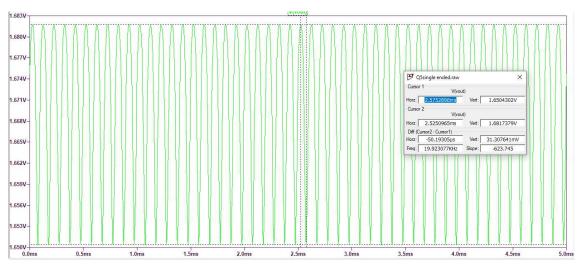
Slew rate=0.0229 v/us



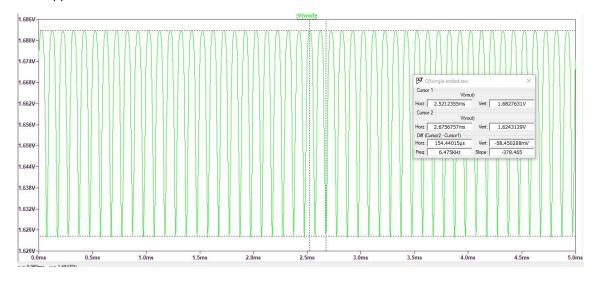
100m pp



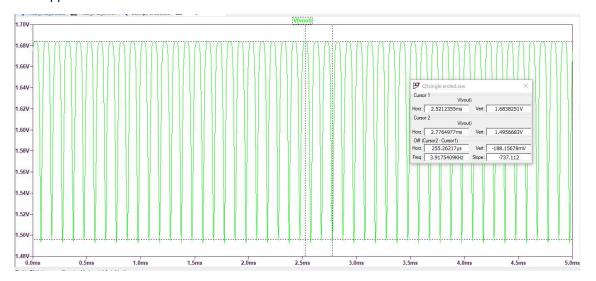
200m pp



300m pp



500m pp



900m pp

