

[General]

Program Version=GasTurb 13
Date of Version=17.Aug.2024
Engine Type No=5
Engine Name=2-Spool Mixed Flow Turbofan
Booster Spool=0
Combustors=0
LevelofDetail=2

[Options]

MapInterpolation=0
dTInterpolation=0
CloseOffDesignwarning=0
DeltaComprEffPqPconst=1
Trapezoid Top width=0

[Units]

SI=1
Kelvin=1
Rankine=1
Angle=0

[Fuel]

Fuel Type=Generic

[Input]

P2q1 =1
SP2q1Byp=1
ZP21q2 =1.5
B_Map =0
ZP13q2 =1.75
P25q21 =0.98
ZP3q25 =16
P16q13 =0.970000028610229
P45q44_r=0.96
BPR_des =4
T4_D =1580
e34ds =0.999499976634979
e34C =1.60000002384186
FHV =43.1239967346191
BldLoc =0
WBLDq21 =0
hr_hdbld=0
WLkq25 =0
ZWBLD =0
ZWBLq25 =0.00499999988824129
hr_bld =1
wreciq25=0
hr_reci =1
stg_HPT =2
WCHN1q25=0.05
WCHR1q25=0.05
WCHN2q25=0
WCHR2q25=0
DmC1_HT =0
stg_LPT =2
WCLN1q25=0
WCLR1q25=0.03
WCLN2q25=0
WCLR2q25=0
HNGV_LPT=0.600000023841858

Hr_LPT_C=0.600000023841858
WkLPq25=0
WkByp =0
ECoreByp=0
ECoolAir=0
EBldAir =0
PWX =0
e_mech_H=0.98
e_mech_L=1
P4q3 =0.96
P6q5 =0.980000019073486
P63q6 =0.990000009536743
P163q16 =0.990000009536743
P8q64 =1
e_mix =0.6
XM64_ds =0.45
A64_ds =0
SDES =2
SMODE =1
ZXN_HPC =1
ZT4 =1580
beta_HPC=0.500001527131772
b_d_HPC =0.5
ZXN_LPC =1
beta_LPC=0.4999850403713
beta_IPC=0.400000005960464
ZBPR =4
beta_HPT=0.500000162647834
beta_LPT=0.499997612268096
b_d_LPC =0.5
ZBPR_d =4
b_d_IPC =0.400000005960464
dT_reci =0
dist_P =0
dist_T =0
sect_Ang=60
Coup1Fac=0
d_w_LPC =0
d_e_LPCo=0
d_e_LPCi=0
d_w_IPC =0
d_e_IPC =0
d_w_HPC =0
d_e_HPC =0
d_VG =0
d_w41R =0
d_e_HPT =0
d_eHPTqN=0
d_w45R =0
d_e_LPT =0
d_eLPTqN=0
d_A163 =0
d_A63 =0
d_A8 =0
d_P25q21=0
d_P4q3 =0
d_P45q44=0
d_P6q5 =0
d_P16q13=0
ZPLA =0
dCommand=0

TODerate=0
MCDerate=0
AsTemp =0
dIdleCom=0
inert_L =33.1053310524345
inert_H =6.9951400884928
N0_PLA =0.5
N1_PLA =1.02
c_prop =0.04
c_int =0.01
c_diff =0.02
pwx1 =99.9999923706055
zwbld1 =1.5
far_L =0.01
far_H =0.0329999998211861
N_dot_l =0.06
N_dot_h =0.06
tm_const=0.5
WF_const=0
Gain =1
ScanId =1
ScanId Tol=1
humid! =0
humid! Tol=10
w2! =49.5
w2! Tol=0.300000011920929
XN_LP_A!=14600
XN_LP_A!Tol=0.100000001490116
XN_HP_A!=22800
XN_HP_A!Tol=0.100000001490116
T2! =288.15
T2! Tol=0.100000001490116
P2! =100.311996459961
P2! Tol=0.100000001490116
T13! =408.39
T13! Tol=0.200000002980232
P13! =300.934997558594
P13! Tol=0.200000002980232
T21! =398.36
T21! Tol=0.200000002980232
P21! =250.779006958008
P21! Tol=0.200000002980232
T3! =727.3
T3! Tol=0.200000002980232
P3! =1737.90100097656
P3! Tol=0.200000002980232
WF! =0.553619980812073
WF! Tol=0.200000002980232
P44! =611.284973144531
P44! Tol=0.300000011920929
T45! =1241.56
T45! Tol=0.300000011920929
P5! =270.233001708984
P5! Tol=0.300000011920929
T5! =1034.86
T5! Tol=0.300000011920929
Pamb! =101.324996948242
Pamb! Tol=0.100000001490116
FG! =29.8899993896484
FG! Tol=0.200000002980232
ZWBLD! =0

ZWBLD! Tol=0.5
PWX! =50
PWX! Tol=0.5
FHV! =43.1240005493164
FHV! Tol=0.100000001490116
X1Mea =0
X1Mea Tol=1
X2Mea =0
X2Mea Tol=1
X3Mea =0
X3Mea Tol=1
X4Mea =0
X4Mea Tol=1
X5Mea =0
X5Mea Tol=1
SInltMom=0
SInltMomTol=1
st0Dia =5
st0Dia Tol=1
st0Pt1Co=0
st0Pt1CoTol=1
A41r_MEA=100
A45r_MEA=100
SAmbient=1
alt =0
dtamb =0
humid =0
XM =0
ZT1 =288.15
ZP1 =101.324996948242
ZPamb =101.324996948242
Zhumid =0
SMassF =1
w2R_std =196
w25R_std=11.8800001144409
rel_NHR =0.990000009536743
Beta =0.439999997615814
w25Rscal=10
e253scal=0.899999976158142
P325scal=4
SEffLC =1
E221is =0.779999971389771
E213is =0.879999995231628
E221pol =0.889999985694885
E213pol =0.879999995231628
e221 =0.870000004768372
NStgLPC =2
FlossLPC=1
XMexLC =0.5
RhqRtLC =0.600000023841858
t_c_LC =0.100000001490116
d_ec_LC =2
SLPCD =2
CXN_L =14600
u_t_LC =480
rr_i_LC =0.37
XM_i_LC =0.58
d2qd_C =1
d_min_LC=0
SEffHC =1
E253is =0.860000014305115

E253pol =0.899999976158142
NStgHPC =6
FLossHPC=1.20000004768372
XMexHC =0.300000011920929
RhqRtHC =0.899999976158142
t_c_HC =0.200000002980232
d_ec_HC =2
SHPCD =2
CXN_H =22800
u_t_HC =420
rr_i_HC =0.53
XM_i_HC =0.52
d_min_HC=0
SEffHT =1
E444is =0.889999997615814
E444pol =0.889999985694885
dmin_HT =0.400000005960464
dmex_HT =0.400000005960464
rrlex_HT=0.800000011920929
VRatioHT=1.04999995231628
kloss_HT=0.349999994039536
ceffc_lHT=0
XM44_ref=0.5
SHTClr =1
t_c_HT =0.100000001490116
d_ec_HT =2
SEffLT =1
E455is =0.910000026226044
E455pol =0.899999976158142
w_EGV =1
dmin_LT =0.5
dmex_LT =0.5
rrlex_LT=0.699999988079071
VRatioLT=1
kloss_LT=0.349999994039536
ceffc_lLT=0
STestAn =1
P13_m =300.934997558594
T13_m =408.62
P21_m =250.779998779297
T21_m =398.53
P3_m =1737.90100097656
T3_m =727.87
wf_m =0.551060020923615
P44_m =610.708984375
P5_m =269.980010986328
SReheat =1
ZT7 =2000
etaRhds =0.899999976158142
etaRhC =0.5
d_e_RH =0
EBAq64 =1
wclqw =0
Z_T7 =2000
Z_far7 =0
Z_etaRh =0.9
EBAqA64 =1
wclqw16 =0
SNozzle =1
A9qA8_a =1.4
A9qA8_b =0

A9qA8_c =0
LimOvEx =0
SNzCalc =1
CFG8 =1
ang8ds =15
ZCFG8 =1
ZCD8 =1
SFog =1
FogHum =0
war12 =0
dwar1qT =0.000500000023748726
cPWH201L=0
cPWH201H=0
TH20Inj =288.15
SOpt_Ld =1
ZPWReqLd=0
T1_Lf =288.15
P1_Lf =101.324996948242
Pamb_Lf =101.324996948242
etrLf =1
WRdsLf =111111
PqPdsLf =111111
EdsLf =111111
SpdDsLf =1
BetaDsLf=0.5
angVGLf =0
d_w_VGLf=1
d_P_VGLf=1
d_E_VGLf=0.00999999977648258
dANozzLf=0
T1_Ld =288.15
P1_Ld =101.324996948242
etrLd =1
WRdsLd =111111
PqPdsLd =111111
EdsLd =111111
SpdDsLd =1
BetaDsLd=0.5
BetaLd =0.5
angVGLd =0
d_w_VGLd=1
d_P_VGLd=1
d_E_VGLd=0.00999999977648258
SLoad=0
LoadedSpoolName=Disconnected

[InputShow]

P2q1 =2
SP2q1Byp=2
ZP21q2 =3
B_Map =3
ZP13q2 =3
P25q21 =1
ZP3q25 =3
P16q13 =1
P45q44_r=1
BPR_des =3
T4_D =3
e34ds =1
e34C =1
FHV =2

BldLoc =3
WBLDq21 =1
hr_hdbld=1
Wlkq25 =1
ZWBLD =2
ZWBLq25 =2
hr_bld =1
wreciq25=2
hr_reci =1
stg_HPT =3
WCHN1q25=1
WCHR1q25=1
WCHN2q25=1
WCHR2q25=1
DmC1_HT =3
stg_LPT =3
WCLN1q25=1
WCLR1q25=1
WCLN2q25=1
WCLR2q25=1
HNGV_LPT=3
Hr_LPT_C=3
WLkLPq25=1
WLkByp =1
ECoreByp=1
ECoolAir=1
EBldAir =1
PWX =2
e_mech_H=1
e_mech_L=1
P4q3 =1
P6q5 =1
P63q6 =1
P163q16 =1
P8q64 =1
e_mix =1
XM64_ds =3
A64_ds =3
alt =2
dtamb =2
humid =2
XM =2
ZT1 =2
ZP1 =2
ZPamb =2
Zhumid =2
w2R_std =3
w25R_std=3
rel_NHR =3
Beta =3
w25Rscal=3
e253scal=3
P325scal=3
E221is =3
E213is =3
E221pol =3
E213pol =3
e221 =3
NStgLPC =3
FLossLPC=3
XMexLC =3

RhqRtLC =3
t_c_LC =3
d_ec_LC =3
CXN_L =3
u_t_LC =3
rr_i_LC =3
XM_i_LC =3
d2qd_C =3
d_min_LC=3
E253is =3
E253pol =3
NStgHPC =3
FLossHPC=3
XMexHC =3
RhqRtHC =3
t_c_HC =3
d_ec_HC =3
CXN_H =3
u_t_HC =3
rr_i_HC =3
XM_i_HC =3
d_min_HC=3
E444is =3
E444pol =3
dmin_HT =3
dmex_HT =3
rrlex_HT=3
VRatioHT=3
kloss_HT=3
ceffc1HT=3
XM44_ref=3
t_c_HT =3
d_ec_HT =3
E455is =3
E455pol =3
w_EGV =3
dmin_LT =3
dmex_LT =3
rrlex_LT=3
VRatioLT=3
kloss_LT=3
ceffc1LT=3
P13_m =3
T13_m =3
P21_m =3
T21_m =3
P3_m =3
T3_m =3
wf_m =3
P44_m =3
P5_m =3
ZT7 =2
etaRhds =1
etaRhC =1
d_e_RH =1
EBAq64 =1
wclqw =1
Z_T7 =2
Z_far7 =2
Z_etaRh =2
EBAqA64 =1

wc1qw16 =1
A9qA8_a =2
A9qA8_b =2
A9qA8_c =2
LimOVEx =1
CFG8 =1
ang8ds =3
ZCFG8 =2
ZCD8 =2
FogHum =2
war12 =2
dwar1qT =2
cPWH2O1L=2
cPWH2O1H=2
TH2OInj =2
ZPWReqLd=2
T1_Lf =2
P1_Lf =2
Pamb_Lf =2
etrLf =1
WRdsLf =4
PqPdsLf =4
EdsLf =4
SpdDsLf =4
BetaDsLf=4
angVGLf =5
d_w_VGLf=5
d_P_VGLf=5
d_E_VGLf=5
dANozzLf=5
T1_Ld =2
P1_Ld =2
etrLd =1
WRdsLd =4
PqPdsLd =4
EdsLd =4
SpdDsLd =4
BetaDsLd=4
BetaLd =5
angVGLd =5
d_w_VGLd=5
d_P_VGLd=5
d_E_VGLd=5

[Design Point]

HPC.ds_spd=0.929629303718446
ds_w35R=0
Omegads=0.00834437919185425
HPT.ds_Spd=0.435039667359575
ds_w44R=0.0424323108416317
PqP44dsqr=1
LPT.ds_Spd=0.50939174038034
ds_w5R=0.117578689998966
TRQ_ds=0
PWSd_corr_ds=0
WFqP3_ds=3.37501663538207E-7
A8_ds=0.658828197225362

[Stations]

NumberOfStations=14

[Station 1]
Name=St2
XMds=0.5
Areads=0

[Station 2]
Name=St21
XMds=0.48
Areads=0

[Station 3]
Name=St25
XMds=0.5
Areads=0

[Station 4]
Name=St3
XMds=0.15
Areads=0

[Station 5]
Name=St4
XMds=0.15
Areads=0

[Station 6]
Name=St44
XMds=0.35
Areads=0

[Station 7]
Name=St45
XMds=0.25
Areads=0

[Station 8]
Name=St5
XMds=0.35
Areads=0

[Station 9]
Name=St6
XMds=0.36
Areads=0

[Station 10]
Name=St13
XMds=0.5
Areads=0

[Station 11]
Name=St16
XMds=0.45
Areads=0

[Station 12]
Name=St64
XMds=0.2
Areads=0

[Station 13]

Name=St7
XMds=0
Areads=0.370543630785635

[Station 14]
Name=St8
XMds=0
Areads=0

[ACondition]
Activated=0
Variable=
Target=
Trial1=111111
Trial2=111111
Trial3=111111
Trial4=111111
Trial5=111111
TargetValue=0
GreaterThan=0

[TOInput]
Line 1=Power Lever Angle, °=55
Line 2=Flat Rating Temp, ISA + °C=15
Line 3=Min Altitude, ft=-2000
Line 4=Max Altitude, ft=15000
Line 5=Max Mach No=0.4
Line 6=T41 - Altitude Gradient °C/1000 ft=1
GridRowCount=1

[MCoInput]
Line 1=Power Lever Angle, °=50
Line 2=Flat Rating Temp, ISA + °C=10
Line 3=Min Altitude, ft=-2000
Line 4=Max Altitude, ft=25000
Line 5=Min Mach No=0
Line 6=Max Mach No=0.85
Line 7=SL Delta T41 Max Continuous, °C=30
Line 8=T41 - Altitude Gradient °C/1000 ft=1
GridRowCount=1

[MClInput]
Line 1=Power Lever Angle, °=45
Line 2=Flat Rating Temp, ISA + °C=10
Line 3=Min Altitude, ft=-2000
Line 4=Max Altitude, ft=40000
Line 5=Min Mach No=0.3
Line 6=Max Mach No=0.85
Line 7=SL Delta T41 Max Climb, °C=50
Line 8=T41 - Altitude Gradient °C/1000 ft=1
Line 9=Altitude of Peak T41, ft=25000
Line 10=High Altitude Delta T41 Max Climb, °C=60
GridRowCount=1

[McrInput]
Line 1=Power Lever Angle, °=40
Line 2=Flat Rating Temp, ISA + °C=10
Line 3=Min Altitude, ft=-2000
Line 4=Max Altitude, ft=40000
Line 5=Min Mach No=0.3
Line 6=Max Mach No=0.85

Line 7=SL Delta T41 Max Cruise, °C=90
Line 8=T41 - Altitude Gradient °C/1000 ft=1
Line 9=Altitude of Peak T41, ft=25000
Line 10=High Altitude Delta T41 Max Cruise, °C=80
GridRowCount=1

[IdleInput]

Line 1=Power Lever Angle, °=10
Line 2=Min Altitude, ft =-2000
Line 3=Max Altitude, ft=36000
Line 4=Min Mach No=0
Line 5=Max Mach No=0.85
GridRowCount=1

[Ov]Geo]

tLSh=0.005
tHSh=0.005
dsht=8000
LPSI=0
HPSI=0
NtMF=1.29
NtMA=0

[In]Geo]

NoSt=0
ScqH=0
GwqH=0.19
CoLR=1.63
CoAn=28
CaLR=0.2
tCas=0.005
dCas=4000
NtMF=1

[LPCGeo]

NStg=1
wIGV=0
IGVt=5
IGVd=4000
Shpe=0.75
RRin=0.37
AspR=2.5
Aspo=3
B]GR=0.95
B]Go=0.8
RPqC=0.5
CPqC=0.5
CEGR=0
CERR=0.95
BPqC=0.5
BiSr=1
Bore=0.1
rts] =0.04
tCas=0.005
dCas=4000
tCoR=5
dCoR=800
BVnt=5
BVnd=4000
NtMF=1

[IC1Geo]
NoSt=2
LqRi=0.86
Slp2=-10
ScPc=60
tCas=0.005
dCas=8000
NtMF=1

[HPCGeo]
NStg=10
NRSt=0
NVGV=3
wIGV=1
IGVt=5
IGVd=4000
Shpe=0.74
RRSe=0
RRin=0.55
RRex=0.9
wSwp=0
AspR=2.2
AspN=0.7
BldG=0.11
PqCh=0.5
Bore=0.25
ArDi=3.2
rtsl=0.5
NtMF=1
tCsO=0.005
dCsO=4000
tCas=0.01
dCas=4000
dHRS=0.3
DRqR=1
DLqR=0
NoSt=8
ScPc=60
RDqR=0.5
InSw=0
Bswp=20
tDif=0.0025
xCas=10
cCas=500
TauC=7
TauB=1
TauP=3
TCID=1.5
dFTc=2
dETc=2
dSTc=5

[MBuGeo]
ReFl=0
LcqI=2
Reqi=1.19
LqRi=1.31
CawL=0.45
tCai=0.0004
tCao=0.0005
dCas=8000

tCan=0.005
dCan=8000
xCan=10
cCan=500
TauC=3
MIqW=2
NtMF=1

[HPTGeo]
NStg=2
shrd=1
Ri21=0.97
Slp1=0
Slp2=0
AspR=1.2
AspN=1
BldG=0.25
PqCh=0.5
Bore=0.15
rtSl=0.1
NtMF=1
tCsO=0.005
dCsO=8000
tCas=0.024
eCas=0.3
dCas=8000
xCas=10
cCas=500
TauC=5
TauB=1
TauP=2
TCID=1.5
dETC=2

[IT1Geo]
NoSt=1
Reqi=1.06
LqRi=0.35
Slp1=10
Slp2=10
ScPc=60
tCas=0.005
dCas=8000
NtMF=1

[LPTGeo]
NStg=2
shrd=1
Ri21=1.1
Slp1=30
Slp2=0
AspR=2.5
AspN=2.7
BldG=0.2
PqCh=0.5
Bore=0.4
rtSl=0.04
NtMF=1
tCas=0.025
eCas=0.3
dCas=8000

xCas=10
cCas=500
TauC=15
TauB=3
TauP=2
TCID=1.5
dETc=2

[ExhGeo]
NoSt=8
SCqH=0.8
SLAn=-2
GwqH=0.2
CoAn=17
CoLR=3.2
CaLR=0.55
ByEx=1.03
tCai=0.002
tCao=0.005
dCas=8000
NtMF=1

[BypGeo]
NoSt=8
xFIP=80
rFIP=0.9
xStr=4
ScPc=10
tStr=0.002
dStr=4000
tCai=0.002
tCao=0.005
dCas=4000
NtMF=1

[MixGeo]
LqD=0.4
NChu=9
ChEx=50
tChu=0.001
dChu=8000
tCas=0.005
dCas=4000
NtMF=1

[CNzGeo]
Type=1
LinR=0.7
LcnI=2.1
CoAn=15
CoLR=0
AqAI=1
LdiT=1.2
tCai=0.002
tCao=0.005
dCas=8000
NtMF=1

[LC01]
MatName=Ti-6Al-4V
RPMo=7603.39289875038

xPos=0.511694274367403
BiRr=0.223052405179005
BeRr=0.279156032740847
CRir=0.602844338321635
CRer=0.589096500322285
wRim=0.151916773257052
Bspn=0.344866200362034
BlLe=0.344866200362034
Bnum=34
Vnum=68
VSuA=0.00589911489558302
TRim=15.0000046704411
TCsg=15.0000046704411
TBld=15.0000046704411
TPlt=15.0000046704411
TGas=15.0000046704411
TGrd=0
AngW=30.0000003015137
wWeb=0.291106240226755
dRqB=0.504072746142429
wBor=0.0997911338543263
rBor=0.12

[LC02]

MatName=INCONEL 718
RPMo=14600
xPos=0.382016077249414
BiRr=0.160677209690316
BeRr=0.18451675276315
CRir=0.311652905813925
CRer=0.311652905813925
wRim=0.0603902784494434
Bspn=0.139055924587192
BlLe=0.139055924587192
Bnum=49
Vnum=61
VSuA=0.00646544056502001
TRim=70.1036138668904
TCsg=70.1036138668904
TBld=70.1036138668904
TPlt=70.1036138668904
TGas=70.1036138668904
TGrd=0
wWeb=0.19237727703891
dRqB=0.388837062496828
wBor=0.0552703424370694
rBor=0.0280498736298069

[LC03]

MatName=INCONEL 718
RPMo=14600
xPos=0.518630125141194
BiRr=0.208356295835984
BeRr=0.223411240792558
CRir=0.311652905813925
CRer=0.311652905813925
wRim=0.0413186439911764
Bspn=0.095769137499654
BlLe=0.095769137499654
Bnum=79
Vnum=95

VSuA=0.00311463657829726
TRim=125.20722306334
TCsg=125.20722306334
TBld=125.20722306334
TPlt=125.20722306334
TGas=125.20722306334
TGrd=0
wWeb=0.196704231410485
dRqB=0.536112077585828
wBor=0.0447666897430632
rBor=0.0280529373792869

[HC01]

MatName=Ti-6Al-4V
RPMo=15310.6153433774
xPos=1.12727104274203
BiRr=0.138836576601398
BeRr=0.153486246013683
CRir=0.261955804908298
CRer=0.258113137861058
wRim=0.0559632855940455
Bspn=0.113873060077137
BLe=0.11216496417598
Bnum=45
Vnum=54
VSuA=0.00497581204438284
TRim=44.3819257264366
TCsg=60.2753849150983
TBld=60.2753849150983
TPlt=60.2753849150983
TGas=60.2753849150983
TGrd=120
RtqB=0.17
AngW=50.2957331834407
wWeb=0.218566827732789
wBor=0.04
rBor=0.055

[HC02]

MatName=Ti-6Al-4V
RPMo=15310.6153433774
xPos=1.23649588622132
BiRr=0.168135915425968
BeRr=0.177316268986626
CRir=0.255055221031813
CRer=0.251971341079728
wRim=0.0427471994782844
Bspn=0.0807871888494736
BLe=0.0795753810167315
Bnum=62
Vnum=73
VSuA=0.00274100645371785
TRim=98.7359504380782
TCsg=109.961194450845
TBld=109.961194450845
TPlt=109.961194450845
TGas=109.961194450845
TGrd=120
AngW=50
dRqB=0.32611
wBor=0.033

rBor=0.055

[HC03]

MatName=Ti-6Al-4V
RPMo=15310.6153433774
xPos=1.32368926855616
BiRr=0.186496622547284
BeRr=0.192394779784766
CRir=0.249187691225798
CRer=0.246905518205326
wRim=0.0335845010777756
Bspn=0.0586009035495368
BlLe=0.0577218899962937
Bnum=82
Vnum=95
VSuA=0.00159183246597569
TRim=152.223126450536
TCsg=159.647003986592
TBld=159.647003986592
TPlt=159.647003986592
TGas=159.647003986592
TGrd=120
AngW=50
wWeb=0.25
dRqB=0.5
wBor=0.03
rBor=0.055

[HC04]

MatName=Ti-6Al-4V
RPMo=15310.6153433774
xPos=1.39565776988714
BiRr=0.198292937022249
BeRr=0.202231759878965
CRir=0.244744235682136
CRer=0.24307893411301
wRim=0.0273242933293456
Bspn=0.0436492364469666
BlLe=0.0429944979002621
Bnum=102
Vnum=116
VSuA=0.000981465672297934
TRim=204.101766933541
TCsg=209.332813522339
TBld=209.332813522339
TPlt=209.332813522339
TGas=209.332813522339
TGrd=120
AngW=50
wWeb=0.3
dRqB=0.6
wBor=0.03
rBor=0.055

[HC05]

MatName=waspa10y
RPMo=15310.6153433774
xPos=1.45716909580499
BiRr=0.20617058273568
BeRr=0.208900297046419
CRir=0.241466403813024

CRer=0.240242066566837
wRim=0.0230190137460939
Bspn=0.0333187952988807
B\Le=0.0328190133693975
Bnum=122
Vnum=138
VSuA=0.000640634684785415
TRim=255.165540964767
TCsg=259.018623058085
TB\ld=259.018623058085
TP\lt=259.018623058085
TGas=259.018623058085
TGrd=120
AngW=50
wWeb=0.33
dRqB=0.9
wBor=0.027
rBor=0.055

[HC06]

MatName=waspa\oy
RPMo=15310.6153433774
xPos=1.51145981729602
BiRr=0.211630011357158
BeRr=0.213582539635512
CRir=0.239042631358197
CRer=0.238130078289242
wRim=0.0200580146349064
Bspn=0.0259800793273845
B\Le=0.0255903781374737
Bnum=141
Vnum=158
VSuA=0.000440913405333938
TRim=305.771678598676
TCsg=308.704432593832
TB\ld=308.704432593832
TP\lt=308.704432593832
TGas=308.704432593832
TGrd=120
AngW=50
wWeb=0.35
dRqB=1.2
wBor=0.03
rBor=0.055

[HC07]

MatName=waspa\oy
RPMo=15310.6153433774
xPos=1.56080195178261
BiRr=0.215535067913865
BeRr=0.217057641933505
CRir=0.23723008556839
CRer=0.236496230385089
wRim=0.0180791813787708
Bspn=0.0205668030530548
B\Le=0.0202583010072589
Bnum=157
Vnum=176
VSuA=0.00031488226749173
TRim=356.108172820332
TCsg=358.390242129579

TBl d=358.390242129579
TPl t=358.390242129579
TGas=358.390242129579
TGrd=120
Angw=50
wWeb=0.35
dRqB=1.6
wBor=0.03
rBor=0.055

[HC08]

MatName=waspa1oy
RPMo=15310.6153433774
xPos=1.60666988955114
BiRr=0.218580215953145
BeRr=0.2196430546252
CRir=0.235769923733328
CRer=0.235246103586416
wRim=0.0166352010775971
Bspn=0.0163963783706994
BlLe=0.016150432695139
Bnum=172
Vnum=189
VSuA=0.000235601745373625
TRim=406.280103766998
TCsg=408.076051665326
TBl d=408.076051665326
TPl t=408.076051665326
TGas=408.076051665326
TGrd=120
Angw=50
wWeb=0.45
dRqB=1.6
wBor=0.03
rBor=0.055

[HC09]

MatName=INCONEL 718
RPMo=15310.6153433774
xPos=1.65048761872141
BiRr=0.220705893297256
BeRr=0.221518891778734
CRir=0.234725927029903
CRer=0.234318617239332
wRim=0.0161769619992078
Bspn=0.0134098795966226
BlLe=0.0132087314026732
Bnum=177
Vnum=194
VSuA=0.000189038044461563
TRim=456.306324916449
TCsg=457.761861201073
TBl d=457.761861201073
TPl t=457.761861201073
TGas=457.761861201073
TGrd=120
Angw=50
wWeb=0.5
dRqB=2
wBor=0.03
rBor=0.055

[HC10]

MatName=INCONEL 718
RPMo=15310.6153433774
xPos=1.69392946057663
BiRr=0.222331890260211
BeRr=0.222984168279662
CRir=0.233913423904913
CRer=0.23358239820754
wRim=0.0165450480638598
Bspn=0.01108988178629
BlLe=0.0109235335594957
Bnum=173
Vnum=189
VSuA=0.000160460682291676
TRim=506.252307768129
TCsg=507.447670736819
TBld=507.447670736819
TPlt=507.447670736819
TGas=507.447670736819
TGrd=120
Angw=50
wweb=0.55
dRqB=2
wBor=0.03
rBor=0.055

[HT01]

MatName=Udimet 720
RPMo=15310.6153433774
xPos=2.08073177318178
BiRr=0.253359563173581
BeRr=0.251083755259297
CRir=0.293461340546088
CRer=0.304636866366928
wRim=0.0296086450860575
Bspn=0.0468274442400691
BlLe=0.046125032576468
Bnum=97
Bshr=1
Vnum=96
VSuA=0.00126240748391826
TRim=701.40119675502
TCsg=802.287573537943
TBld=1097.12747633907
TPlt=960.09972870516
TGas=1370.27747633907
Type=2
Brho=8000
Angw=64.8442124086432
wweb=0.247241997641278
dRqB=0.6
wBor=0.08
rBor=0.038113

[HT02]

MatName=Udimet 720
RPMo=15310.6153433774
xPos=2.16659684393134
BiRr=0.247474016076442
BeRr=0.246461354808439

CRir=0.307340042970988
CRer=0.310043219575048
wRim=0.0355303741032693
Bspn=0.061723945830578
B\Le=0.0607980866431193
Bnum=98
Bshr=1
Vnum=98
VSuA=0.0019257803254845
TRim=580.059794203782
TCsg=616.875150635732
TB\ld=726.302630534645
TP\lt=626.357367481181
TGas=999.452630534645
Type=2
Angw=58.2912842193922
wweb=0.150008934675896
dRqB=0.59671884638636
wBor=0.06
rBor=0.0381125806404793

[LT01]

MatName=INCONEL 718
RPMo=7603.39289875038
xPos=2.35260201035357
BiRr=0.255767551773613
BeRr=0.266078463281596
CRir=0.335366982372225
CRer=0.383593824749989
wRim=0.0443126217633116
Bspn=0.0985573960335027
B\Le=0.0970790350930002
Bnum=140
Bshr=1
Vnum=133
VSuA=0.00176724760278449
TRim=517.237025565993
TCsg=398.9670130672
TB\ld=726.302630534645
TP\lt=626.357367481181
TGas=999.452630534645
TGrd=100
Brho=8000
RtqB=0.1
Angw=60.6493795244023
wBor=0.03
rBor=0.12

[LT02]

MatName=INCONEL 718
RPMo=7603.39289875038
xPos=2.4279334673512
BiRr=0.270925353705006
BeRr=0.27199816027039
CRir=0.39877516413592
CRer=0.413956503521851
wRim=0.026587573057987
Bspn=0.134904076841188
B\Le=0.13288051568857
Bnum=158
Bshr=1

Vnum=154
VSuA=0.00309736293994692
TRim=405.653431350893
TCsg=292.563798057687
TBld=513.496200515618
TPlt=434.831580464056
TGas=786.646200515618
TGrd=100
wBor=0.0257559729905736
rBor=0.12

[LT03]

MatName=INCONEL 718
RPMo=14600
xPos=1.52716397969556
BiRr=0.246696275057724
BeRr=0.254467751129887
wRim=0.0257559729905736
Bspn=0.0421041828809933
Bnum=130
Bshr=1
TRim=645.439588815566
TGrd=100
wBor=0.0257559729905736
rBor=0.109654841551491

[LT04]

MatName=INCONEL 718
RPMo=14600
xPos=1.591553912172
BiRr=0.264048403138786
BeRr=0.268836502177054
wRim=0.0257559729905736
Bspn=0.0458209611450482
Bnum=139
Bshr=1
TRim=603.504291004082
TGrd=100
wBor=0.0257559729905736
rBor=0.109654841551491

[LT05]

MatName=INCONEL 718
RPMo=14600
xPos=1.65594384464843
BiRr=0.273252214309073
BeRr=0.27413710387873
wRim=0.0257559729905736
Bspn=0.0514935164529687
Bnum=145
Bshr=1
TRim=561.32456591503
TGrd=100
wBor=0.0257559729905736
rBor=0.109654841551491

[LPCAnn]

AnnDesOp=1
AnnLnBzA=2
ADAnnDsO=1
BezPtAIn=0

BezPtMTI=0
BezPtMHI=0
AnnMLDes=0
BzAPt1_X=1
BzAPt1_Y=1
BzAPt2_X=1
BzAPt2_Y=1
BzAPt3_X=1
BzAPt3_Y=1
BzAPt4_X=1
BzAPt4_Y=1
BzMTP1_X=1
BzMTP1_Y=1
BzMTP2_X=1
BzMTP2_Y=1
BzMTP3_X=1
BzMTP3_Y=1
BzMTP4_X=1
BzMTP4_Y=1
BzMHP1_X=1
BzMHP1_Y=1
BzMHP2_X=1
BzMHP2_Y=1
BzMHP3_X=1
BzMHP3_Y=1
BzMHP4_X=1
BzMHP4_Y=1
AnnLngth=0.554738662244275
AnnLngtM=0

[HPCAnn]
AnnDesOp=1
AnnLnBzA=2
ADAnnDsO=1
BezPtAIn=0
BezPtMTI=0
BezPtMHI=0
AnnMLDes=0
BzAPt1_X=1
BzAPt1_Y=1
BzAPt2_X=1
BzAPt2_Y=1
BzAPt3_X=1
BzAPt3_Y=1
BzAPt4_X=1
BzAPt4_Y=1
BzMTP1_X=1
BzMTP1_Y=1
BzMTP2_X=1
BzMTP2_Y=1
BzMTP3_X=1
BzMTP3_Y=1
BzMTP4_X=1
BzMTP4_Y=1
BzMHP1_X=1
BzMHP1_Y=1
BzMHP2_X=1
BzMHP2_Y=1
BzMHP3_X=1
BzMHP3_Y=1
BzMHP4_X=1

BzMHP4_Y=1
AnnLngth=2.42565723948931
AnnLngtM=0

[DS Composed Values]

CPSI=1
CPKelvin=1
CPRankine=1

[OD Composed Values]

CPSI=1
CPKelvin=1
CPRankine=1

[AS Composed Values]

CPSI=1
CPKelvin=1
CPRankine=1

[TR Composed Values]

CPSI=1
CPKelvin=1
CPRankine=1

[AD Composed Values]

CPSI=1
CPKelvin=1
CPRankine=1

[Parameterstudy]

DParameterName1=LPC Inlet Radius Ratio
DParLow1=0.4
DValues1=5
DParStep1=0.05
Companions1Name=Undefined
Companions1Low=0
Companions1High=0
Companions2Name=Undefined
Companions2Low=0
Companions2High=0
Companions3Name=Undefined
Companions3Low=0
Companions3High=0
Companions4Name=Undefined
Companions4Low=0
Companions4High=0
Companions5Name=Undefined
Companions5Low=0
Companions5High=0
DParameterName2=LPC Inlet Mach Number
DParLow2=0.5
DValues2=5
DParStep2=0.05
ODParameterName1=Undefined
ODParLow1=0
ODValues1=0
ODParStep1=0
ODParameterName2=Undefined
ODParLow2=0
ODValues2=0
ODParStep2=0

[Design Iteration]
Selected=0

[Aero Design Iteration]
Selected=0

[Off Design Iteration]
Selected=0

[AnSyn Iteration]
Analysis Method=2
Selected=0

[Transient Iteration]
Selected=1

[Optimization]
MaximizeFom=0

[AD Optimization]
MaximizeFom=1

[Limiter]
PowerSelection=0
SEPRDef=1
NHmin=0
NHmin setting=0
WFmin=0
WFmin setting=0
NHRmin=0
NHRmin setting=0
P3min=0
P3min setting=0
MinLimiter1=0
MinLimiterIndex1=0
MinLimiter1 setting=0
MinLimiter2=0
MinLimiterIndex2=0
MinLimiter2 setting=0
MinLimiter3=0
MinLimiterIndex3=0
MinLimiter3 setting=0
NL=0
NL setting=0
NLR=0
NLR setting=0
NH=0
NH setting=0
NHR=0
NHR setting=0
T3=0
T3 setting=0
P3=0
P3 setting=0
T41=0
T41 setting=0
T45=0
T45 setting=0
T5=0
T5 setting=0

