

```

#=====
=====>
# Author: Emmanuel Selorm Tsyawo
# Project: Feasible IV Regression without Excluded Instruments
# Date began: Sept 13, 2021
# Last Update: Sept 13, 2021
# Place: Rabat
#=====
=====>
# Load packages, clear memory,
rm(list=ls())
library(MASS)
library(estrpac)#install from binary file estrpac_0.1.0.tgz or
# use devtools::install_github("estsyawo/estrpac")
library(pbapply)
library(AER)
setwd(dirname(rstudioapi::getActiveDocumentContext())$path)) #set
working directory path to source file
list.files()
#=====
=====>
# Comments: Simulations to check the performance of the proposed
Linear Completeness
# test on DGPs 0A, 3B, and 1B
#=====
=====>

#=====
=====>
#***** Begin Printing out output to file
Out_log <- file("MC_Test_Rel_log.txt") # File name of output log

sink(Out_log, append = TRUE, type = "output") # Writing console
output to log file
sink(Out_log, append = TRUE, type = "message")

cat(readChar(rstudioapi::getSourceEditorContext())$path, # Writing
currently opened R script to file
      file.info(rstudioapi::getSourceEditorContext())$path
      $size))
#=====
=====>

# Set Parameters
R = 1000 # set number of simulations
a=b=1 #set parameters
B=499

#-----
# DGP 0A
gdat_0A<- function(n,gam){
  datl=list()
  for (l in 1:R) {

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set.seed(l) #generate seed
Z=rnorm(n)

Sig = diag(2); Sig[1,2]=Sig[2,1]=0.5
set.seed(l+10)
EU=mvrnorm(n=n,mu=c(0,0),Sigma = Sig)
#generate endogenous covariate
D = 1/4 + Z + gam*Z^2+EU[,2]
#generate outcome
Y = a + D + Z + EU[,1]

#save in a list
datl[[l]]<- list(Y=Y,X=cbind(D,Z),Z=Z)
}
datl
}

#----->
#DGP 3B
f.fun=function(Z,U,gam){1*((1+gam*Z+U)>0)}

gdat_3B<- function(n,gam){
  datl=list(); pz = 2
  for (l in 1:R) {
    set.seed(l) #generate seed
    Z=mvrnorm(n,rep(0,pz),exp(-as.matrix(dist(1:pz))))
    X = Z[,2]
    Sig = diag(2); Sig[1,2]=Sig[2,1]=0.8
    set.seed(l+10)
    EU=MASS::mvrnorm(n=n,mu=c(0,0),Sigma = Sig)
    #generate endogenous covariate

    D = f.fun(Z[,1],EU[,2],gam)
    #generate outcome
    Y = 1 + b*D + X + EU[,1]
    datl[[l]]<- list(Y=Y,X=cbind(D,X),Z=Z)
  }
  datl
}
#----->
# DGP 1B
gdat_1B<- function(n,gam){
  datl=list()
  for (l in 1:R) {
    set.seed(l) #generate seed
    Z=mvrnorm(n,rep(0,2),exp(-as.matrix(dist(1:2))))

    Sig = diag(2); Sig[1,2]=Sig[2,1]=0.5
    set.seed(l+10)
    EU=mvrnorm(n=n,mu=c(0,0),Sigma = Sig)
    #generate endogenous covariate
    set.seed(2*l+10)

```

```

    D = sign(gam)*sqrt(abs(gam))*sin(Z[,1])*sin(Z[,2])/((1-exp(-2))/
4) + EU[,2]
    #generate outcome

    Y = a + D + Z[,2] + EU[,1]

    #save in a list
    datl[[l]]<- list(Y=Y,X=cbind(D,Z[,2]),Z=Z)
  }
  datl
}

# size a, n = 250, gamma = 0.0
datl_0A=gdat_0A(n=250,gam = 0.0)
datl_3B=gdat_3B(n=250,gam = 0.0)
datl_1B=gdat_1B(n=250,gam = 0.0)

wmat.A = wmat.mammen(n=250,B=B,seed = 0)

MCfun0<- function(j=NULL,datl,wmat){
  dat = datl[[j]] #null operation for looping
  Y = dat$Y; X = as.matrix(dat$X)
  Z = as.matrix(dat$Z)

  #run K-Class regressions
  MMDObj=imlmreg2.fit(Y=X[,1],X=X[,2],Z=Z)
  pv.MMD=speclmb.test(reg.Obj = MMDObj,B=B,wmat = wmat)$p.value

  size_power.MMD = 1*(pv.MMD<=c(0.01,0.05,0.1))
  res=size_power.MMD
  names(res)=c("MMD_1%","MMD_5%","MMD_10%")
  res
}

MCfun1<- function(j=NULL,datl,wmat){
  dat = datl[[j]] #null operation for looping
  Y = dat$Y; X = as.matrix(dat$X)
  Z = as.matrix(dat$Z)

  #run K-Class regressions
  MMDObj=imlmreg2.fit(Y=X[,1],X=as.matrix(X[,2]),Z=Z)
  pv.MMD=speclmb.test(reg.Obj = MMDObj,B=B,wmat = wmat)$p.value
  pv.TSLS=c(summary(ivreg(Y~X|Z),diagnostics = TRUE)
$diagnostics[1,4])

  size_power.MMD = 1*(pv.MMD<=c(0.01,0.05,0.1))
  size_power.TSLS = 1*(pv.TSLS<=c(0.01,0.05,0.1))
  res=c(size_power.MMD,size_power.TSLS)[c(1,4,2,5,3,6)]

  names(res)=c("MMD_1%","TSLS_1%","MMD_5%","TSLS_5%","MMD_10%","TSLS_1
0%")
  res
}

```

```

#
#-----
# Design 1

# illustration

MCfun0(j=2,datl=datl_0A,wmat = wmat.A)
# MMD_1% MMD_5% MMD_10%
# 0 0 0
MCfun1(j=2,datl=datl_3B,wmat = wmat.A)
# MMD_1% TSLS_1% MMD_5% TSLS_5% MMD_10% TSLS_10%
# 0 0 0 0 0 0
#
MCfun1(j=2,datl=datl_1B,wmat = wmat.A)

gamvec=seq(-1,1,0.2)
SizePow_0A=SizePow_3B=SizePow_1B=list()

for(g in 1:length(gamvec)){
  #----->
  # DGP 0A
  cat("g = ",g,"\n")
  dat0 = gdat_0A(n=250,gam = gamvec[g])
  SizePow_0A[[g]] = pbsapply(1:R, FUN=MCfun0,cl=4,datl=dat0,wmat =
wmat.A)
  cat("gamma = ",gamvec[g],"\n")
  print(apply(SizePow_0A[[g]],1,mean))

  #----->
  # DGP 3B
  cat("g = ",g,"\n")
  dat1 = gdat_3B(n=250,gam = gamvec[g])
  SizePow_3B[[g]] = pbsapply(1:R, FUN=MCfun1,cl=4,datl=dat1,wmat =
wmat.A)
  cat("gamma = ",gamvec[g],"\n")
  print(apply(SizePow_3B[[g]],1,mean))

  #----->
  # DGP 1B
  dat2 = gdat_1B(n=250,gam = gamvec[g])
  SizePow_1B[[g]] = pbsapply(1:R, FUN=MCfun1,cl=4,datl=dat2,wmat =
wmat.A)
  print(apply(SizePow_1B[[g]],1,mean))
}

res.0A = apply(SizePow_0A[[1]],1,mean)
res.3B = apply(SizePow_3B[[1]],1,mean)
res.1B = apply(SizePow_1B[[1]],1,mean)

for (g in 2:length(gamvec)) {
  res.0A=rbind(res.0A,apply(SizePow_0A[[g]],1,mean))
  res.3B=rbind(res.3B,apply(SizePow_3B[[g]],1,mean))
  res.1B=rbind(res.1B,apply(SizePow_1B[[g]],1,mean))
}

```

```
rownames(res.0A)=paste(gamvec)
```

```
rownames(res.3B)=paste(gamvec)
```

```
rownames(res.1B)=paste(gamvec)
```

```
res.0A
```

```
res.3B
```

```
res.1B
```

```
#-----  
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```

```
# 1% Power Curve for Specification 0A
```

```
pdf("Fig_PowerCurve0A_01.pdf")
```

```
plot(gamvec,res.0A[,1],type = "l",col="blue",xlab = "",ylab =  
"",xaxt="n",yaxt="n",  
      ylim = c(-0.01,1.01))
```

```
axis(side=1, at=gamvec , labels=paste(gamvec))
```

```
axis(side=2, at=seq(0,1,0.2) , labels=paste(seq(0,1,0.2)))
```

```
abline(h=0.01,lty=3)
```

```
dev.off()
```

```
#-----  
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```

```
# 5% Power Curve for Specification 0A
```

```
pdf("Fig_PowerCurve0A_05.pdf")
```

```
plot(gamvec,res.0A[,2],type = "l",col="blue",xlab = "",ylab =  
"",xaxt="n",yaxt="n",  
      ylim = c(-0.01,1.01))
```

```
axis(side=1, at=gamvec , labels=paste(gamvec))
```

```
axis(side=2, at=seq(0,1,0.2) , labels=paste(seq(0,1,0.2)))
```

```
abline(h=0.05,lty=3)
```

```
dev.off()
```

```
#-----  
-----
```

```
# 10% Power Curve for Specification 0A
```

```
pdf("Fig_PowerCurve0A_10.pdf")
```

```
plot(gamvec,res.0A[,3],type = "l",col="blue",xlab = "",ylab =  
"",xaxt="n",yaxt="n",  
      ylim = c(-0.01,1.01))
```

```
axis(side=1, at=gamvec , labels=paste(gamvec))
```

```
axis(side=2, at=seq(0,1,0.2) , labels=paste(seq(0,1,0.2)))
```

```
abline(h=0.10,lty=3)
```

```
dev.off()
```

```
#-----  
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```

```
# 1% Power Curve for Specification 3B
```

```
pdf("Fig_PowerCurve3B_01.pdf")
```

```
plot(gamvec,res.3B[,1],type = "l",col="blue",xlab = "",ylab =  
"",xaxt="n",yaxt="n",  
      ylim = c(-0.01,1.01))
```

```
axis(side=1, at=gamvec , labels=paste(gamvec))
```

```
axis(side=2, at=seq(0,1,0.2) , labels=paste(seq(0,1,0.2)))
```

```
lines(gamvec,res.3B[,2],lty = 2,col="red")
```

```
abline(h=0.01,lty=3)
```

```
legend(0.6,0.95,c("MMD LC","IV FS"),lty = c(1,2),col =
```

```

c("blue","red"))
dev.off()
#-----
# 5% Power Curve for Specification 3B
pdf("Fig_PowerCurve3B_05.pdf")
plot(gamvec,res.3B[,3],type = "l",col="blue",xlab = "",ylab =
"",xaxt="n",yaxt="n",
ylim = c(-0.01,1.01))
axis(side=1, at=gamvec , labels=paste(gamvec))
axis(side=2, at=seq(0,1,0.2) , labels=paste(seq(0,1,0.2)))
lines(gamvec,res.3B[,4],lty = 2,col="red")
abline(h=0.05,lty=3)
legend(0.6,0.95,c("MMD LC","IV FS"),lty = c(1,2),col =
c("blue","red"))
dev.off()
#-----
# 10% Power Curve for Specification 3B
pdf("Fig_PowerCurve3B_10.pdf")
plot(gamvec,res.3B[,5],type = "l",col="blue",xlab = "",ylab =
"",xaxt="n",yaxt="n",
ylim = c(-0.01,1.01))
axis(side=1, at=gamvec , labels=paste(gamvec))
axis(side=2, at=seq(0,1,0.2) , labels=paste(seq(0,1,0.2)))
lines(gamvec,res.3B[,6],lty = 2,col="red")
abline(h=0.10,lty=3)
legend(0.6,0.95,c("MMD LC","IV FS"),lty = c(1,2),col =
c("blue","red"))
dev.off()
#-----
# 1% Power Curve for Specification 1B
pdf("Fig_PowerCurve1B_01.pdf")
plot(gamvec,res.1B[,1],type = "l",col="blue",xlab = "",ylab =
"",xaxt="n",yaxt="n",
ylim = c(-0.01,1.01))
axis(side=1, at=gamvec , labels=paste(gamvec))
axis(side=2, at=seq(0,1,0.2) , labels=paste(seq(0,1,0.2)))
lines(gamvec,res.1B[,2],lty = 2,col="red")
abline(h=0.01,lty=3)
legend(0.6,0.75,c("MMD LC","IV FS"),lty = c(1,2),col =
c("blue","red"))
dev.off()
#-----
# 5% Power Curve for Specification 1B
pdf("Fig_PowerCurve1B_05.pdf")
plot(gamvec,res.1B[,3],type = "l",col="blue",xlab = "",ylab =
"",xaxt="n",yaxt="n",
ylim = c(-0.01,1.01))
axis(side=1, at=gamvec , labels=paste(gamvec))
axis(side=2, at=seq(0,1,0.2) , labels=paste(seq(0,1,0.2)))
lines(gamvec,res.1B[,4],lty = 2,col="red")
abline(h=0.05,lty=3)
legend(0.6,0.90,c("MMD LC","IV FS"),lty = c(1,2),col =
c("blue","red"))

```

```

dev.off()
#-----
# 10% Power Curve for Specification 1B
pdf("Fig_PowerCurve1B_10.pdf")
plot(gamvec,res.1B[,5],type = "l",col="blue",xlab = "",ylab =
"",xaxt="n",yaxt="n",
      ylim = c(-0.01,1.01))
axis(side=1, at=gamvec , labels=paste(gamvec))
axis(side=2, at=seq(0,1,0.2) , labels=paste(seq(0,1,0.2)))
lines(gamvec,res.1B[,6],lty = 2,col="red")
abline(h=0.10,lty=3)
legend(0.5,0.90,c("MMD LC","IV FS"),lty = c(1,2),col =
c("blue","red"))
dev.off()
#-----

```

```

#=====
=====>
closeAllConnections() # Close connection to log file MMD_1% MMD_5%
MMD_10%
      0      0      0
MMD_1%  TSLS_1%  MMD_5%  TSLS_5%  MMD_10%  TSLS_10%
      0      0      0      0      0      0
MMD_1%  TSLS_1%  MMD_5%  TSLS_5%  MMD_10%  TSLS_10%
      0      0      0      0      0      0
g = 1

```

```

|                                     | 0 %
~calculating                         |
|+                                    | 1 % ~17m 21s
|++                                   | 2 % ~17m 37s
|++                                   | 4 % ~17m 44s
|+++                                  | 5 % ~17m 42s
|+++                                  | 6 % ~17m 36s
|++++                                 | 7 % ~17m 31s
|++++                                 | 8 % ~17m 20s
|+++++                                | 10% ~17m 06s
|+++++                                | 11% ~16m 51s
|+++++                                | 12% ~16m 37s
|+++++                                | 13% ~16m 23s
|+++++                                | 14% ~16m 10s
|+++++                                | 15% ~15m 56s
|+++++                                | 17% ~15m 43s
|+++++                                | 18% ~15m 29s
|+++++                                | 19% ~15m 16s
|+++++                                | 20% ~15m 03s
|+++++                                | 21% ~14m 49s
|+++++                                | 23% ~14m 36s
|+++++                                | 24% ~14m 23s
|+++++                                | 25% ~14m 10s
|+++++                                | 26% ~13m 56s
|+++++                                | 27% ~13m 43s
|+++++                                | 29% ~13m 29s
|+++++                                | 30% ~13m 16s

```

+++++	31%	~13m	03s
+++++	32%	~12m	49s
+++++	33%	~12m	36s
+++++	35%	~12m	23s
+++++	36%	~12m	09s
+++++	37%	~11m	56s
+++++	38%	~11m	42s
+++++	39%	~11m	29s
+++++	40%	~11m	15s
+++++	42%	~11m	02s
+++++	43%	~10m	48s
+++++	44%	~10m	35s
+++++	45%	~10m	22s
+++++	46%	~10m	08s
+++++	48%	~09m	55s
+++++	49%	~09m	42s
+++++	50%	~09m	28s
+++++	51%	~09m	15s
+++++	52%	~09m	01s
+++++	54%	~08m	48s
+++++	55%	~08m	34s
+++++	56%	~08m	21s
+++++	57%	~08m	07s
+++++	58%	~07m	54s
+++++	60%	~07m	40s
+++++	61%	~07m	27s
+++++	62%	~07m	13s
+++++	63%	~06m	60s
+++++	64%	~06m	46s
+++++	65%	~06m	33s
+++++	67%	~06m	19s
+++++	68%	~06m	06s
+++++	69%	~05m	52s
+++++	70%	~05m	39s
+++++	71%	~05m	25s
+++++	73%	~05m	11s
+++++	74%	~04m	58s
+++++	75%	~04m	44s
+++++	76%	~04m	31s
+++++	77%	~04m	17s
+++++	79%	~04m	04s
+++++	80%	~03m	50s
+++++	81%	~03m	36s
+++++	82%	~03m	23s
+++++	83%	~03m	09s
+++++	85%	~02m	56s
+++++	86%	~02m	42s
+++++	87%	~02m	29s
+++++	88%	~02m	15s
+++++	89%	~02m	02s
+++++	90%	~01m	48s
+++++	92%	~01m	35s
+++++	93%	~01m	21s
+++++	94%	~01m	07s

```

|+++++| 95% ~54s
|+++++| 96% ~40s
|+++++| 98% ~27s
|+++++| 99% ~13s
|+++++| 100%

```

elapsed=18m 43s

gamma = -1

MMD_1% MMD_5% MMD_10%
1 1 1

g = 1

```

| 0 %
~calculating
|+| 1 % ~18m 08s
|++| 2 % ~18m 01s
|++| 4 % ~17m 53s
|+++| 5 % ~17m 41s
|+++| 6 % ~17m 28s
|++++| 7 % ~17m 15s
|+++++| 8 % ~17m 02s
|+++++| 10% ~16m 49s
|+++++| 11% ~16m 37s
|+++++| 12% ~16m 23s
|+++++| 13% ~16m 10s
|+++++| 14% ~15m 58s
|+++++| 15% ~15m 45s
|+++++| 17% ~15m 32s
|+++++| 18% ~15m 18s
|+++++| 19% ~15m 05s
|+++++| 20% ~14m 51s
|+++++| 21% ~14m 38s
|+++++| 23% ~14m 26s
|+++++| 24% ~14m 13s
|+++++| 25% ~13m 60s
|+++++| 26% ~13m 47s
|+++++| 27% ~13m 33s
|+++++| 29% ~13m 20s
|+++++| 30% ~13m 06s
|+++++| 31% ~12m 53s
|+++++| 32% ~12m 40s
|+++++| 33% ~12m 26s
|+++++| 35% ~12m 13s
|+++++| 36% ~12m 00s
|+++++| 37% ~11m 47s
|+++++| 38% ~11m 33s
|+++++| 39% ~11m 20s
|+++++| 40% ~11m 07s
|+++++| 42% ~10m 53s
|+++++| 43% ~10m 40s
|+++++| 44% ~10m 26s
|+++++| 45% ~10m 13s
|+++++| 46% ~09m 60s
|+++++| 48% ~09m 46s
|+++++| 49% ~09m 33s

```

+++++	50%	~09m	20s
+++++	51%	~09m	06s
+++++	52%	~08m	53s
+++++	54%	~08m	40s
+++++	55%	~08m	26s
+++++	56%	~08m	13s
+++++	57%	~07m	60s
+++++	58%	~07m	46s
+++++	60%	~07m	33s
+++++	61%	~07m	20s
+++++	62%	~07m	06s
+++++	63%	~06m	53s
+++++	64%	~06m	40s
+++++	65%	~06m	26s
+++++	67%	~06m	13s
+++++	68%	~05m	60s
+++++	69%	~05m	47s
+++++	70%	~05m	33s
+++++	71%	~05m	20s
+++++	73%	~05m	07s
+++++	74%	~04m	53s
+++++	75%	~04m	40s
+++++	76%	~04m	26s
+++++	77%	~04m	13s
+++++	79%	~03m	60s
+++++	80%	~03m	46s
+++++	81%	~03m	33s
+++++	82%	~03m	20s
+++++	83%	~03m	06s
+++++	85%	~02m	53s
+++++	86%	~02m	40s
+++++	87%	~02m	27s
+++++	88%	~02m	13s
+++++	89%	~01m	60s
+++++	90%	~01m	47s
+++++	92%	~01m	33s
+++++	93%	~01m	20s
+++++	94%	~01m	07s
+++++	95%	~53s	
+++++	96%	~40s	
+++++	98%	~27s	
+++++	99%	~13s	
+++++	100%		

elapsed=18m 30s

gamma = -1

MMD_1%	TSL_S_1%	MMD_5%	TSL_S_5%	MMD_10%	TSL_S_10%
1	1	1	1	1	1

~calculating

	0 %
+	1 % ~18m 15s
++	2 % ~18m 08s
++	4 % ~17m 54s
+++	5 % ~17m 42s

+++	6 % ~17m 29s
++++	7 % ~17m 17s
+++++	8 % ~17m 04s
+++++	10% ~16m 51s
+++++	11% ~16m 38s
+++++	12% ~16m 25s
+++++	13% ~16m 11s
+++++	14% ~15m 58s
+++++	15% ~15m 45s
+++++	17% ~15m 32s
+++++	18% ~15m 18s
+++++	19% ~15m 05s
+++++	20% ~14m 52s
+++++	21% ~14m 39s
+++++	23% ~14m 30s
+++++	24% ~14m 19s
+++++	25% ~14m 07s
+++++	26% ~13m 53s
+++++	27% ~13m 39s
+++++	29% ~13m 25s
+++++	30% ~13m 12s
+++++	31% ~12m 58s
+++++	32% ~12m 44s
+++++	33% ~12m 30s
+++++	35% ~12m 17s
+++++	36% ~12m 03s
+++++	37% ~11m 50s
+++++	38% ~11m 36s
+++++	39% ~11m 23s
+++++	40% ~11m 09s
+++++	42% ~10m 56s
+++++	43% ~10m 42s
+++++	44% ~10m 29s
+++++	45% ~10m 15s
+++++	46% ~10m 02s
+++++	48% ~09m 48s
+++++	49% ~09m 35s
+++++	50% ~09m 22s
+++++	51% ~09m 08s
+++++	52% ~08m 55s
+++++	54% ~08m 42s
+++++	55% ~08m 28s
+++++	56% ~08m 15s
+++++	57% ~08m 01s
+++++	58% ~07m 48s
+++++	60% ~07m 35s
+++++	61% ~07m 21s
+++++	62% ~07m 08s
+++++	63% ~06m 54s
+++++	64% ~06m 41s
+++++	65% ~06m 28s
+++++	67% ~06m 14s
+++++	68% ~06m 01s
+++++	69% ~05m 47s

+++++	70%	~05m	34s
+++++	71%	~05m	21s
+++++	73%	~05m	07s
+++++	74%	~04m	54s
+++++	75%	~04m	41s
+++++	76%	~04m	27s
+++++	77%	~04m	14s
+++++	79%	~04m	00s
+++++	80%	~03m	47s
+++++	81%	~03m	34s
+++++	82%	~03m	20s
+++++	83%	~03m	07s
+++++	85%	~02m	54s
+++++	86%	~02m	40s
+++++	87%	~02m	27s
+++++	88%	~02m	14s
+++++	89%	~02m	00s
+++++	90%	~01m	47s
+++++	92%	~01m	33s
+++++	93%	~01m	20s
+++++	94%	~01m	07s
+++++	95%	~53s	
+++++	96%	~40s	
+++++	98%	~27s	
+++++	99%	~13s	
+++++	100%		

elapsed=18m 32s

MMD_1%	TSLS_1%	MMD_5%	TSLS_5%	MMD_10%	TSLS_10%
1.000	0.049	1.000	0.133	1.000	0.211

g = 2

	0 %
~calculating	
+	1 % ~18m 09s
++	2 % ~18m 07s
++	4 % ~17m 57s
+++	5 % ~17m 45s
+++	6 % ~17m 29s
++++	7 % ~17m 16s
+++++	8 % ~17m 02s
+++++	10% ~16m 48s
+++++	11% ~16m 35s
+++++	12% ~16m 22s
+++++	13% ~16m 08s
+++++	14% ~15m 54s
+++++	15% ~15m 41s
+++++	17% ~15m 29s
+++++	18% ~15m 16s
+++++	19% ~15m 02s
+++++	20% ~14m 49s
+++++	21% ~14m 35s
+++++	23% ~14m 22s
+++++	24% ~14m 09s
+++++	25% ~13m 55s

+++++	26%	~13m	42s
+++++	27%	~13m	29s
+++++	29%	~13m	15s
+++++	30%	~13m	02s
+++++	31%	~12m	49s
+++++	32%	~12m	36s
+++++	33%	~12m	22s
+++++	35%	~12m	09s
+++++	36%	~11m	56s
+++++	37%	~11m	42s
+++++	38%	~11m	29s
+++++	39%	~11m	16s
+++++	40%	~11m	02s
+++++	42%	~10m	49s
+++++	43%	~10m	36s
+++++	44%	~10m	23s
+++++	45%	~10m	09s
+++++	46%	~09m	56s
+++++	48%	~09m	43s
+++++	49%	~09m	30s
+++++	50%	~09m	16s
+++++	51%	~09m	03s
+++++	52%	~08m	50s
+++++	54%	~08m	37s
+++++	55%	~08m	23s
+++++	56%	~08m	10s
+++++	57%	~07m	57s
+++++	58%	~07m	44s
+++++	60%	~07m	31s
+++++	61%	~07m	17s
+++++	62%	~07m	04s
+++++	63%	~06m	51s
+++++	64%	~06m	37s
+++++	65%	~06m	24s
+++++	67%	~06m	11s
+++++	68%	~05m	58s
+++++	69%	~05m	44s
+++++	70%	~05m	31s
+++++	71%	~05m	18s
+++++	73%	~05m	05s
+++++	74%	~04m	51s
+++++	75%	~04m	38s
+++++	76%	~04m	25s
+++++	77%	~04m	12s
+++++	79%	~03m	58s
+++++	80%	~03m	45s
+++++	81%	~03m	32s
+++++	82%	~03m	19s
+++++	83%	~03m	05s
+++++	85%	~02m	52s
+++++	86%	~02m	39s
+++++	87%	~02m	26s
+++++	88%	~02m	12s
+++++	89%	~01m	59s

```

|+++++| 90% ~01m 46s
|+++++| 92% ~01m 33s
|+++++| 93% ~01m 19s
|+++++| 94% ~01m 06s
|+++++| 95% ~53s
|+++++| 96% ~40s
|+++++| 98% ~26s
|+++++| 99% ~13s
|+++++| 100%

```

```

elapsed=18m 24s
gamma = -0.8
MMD_1% MMD_5% MMD_10%
  1      1      1
g = 2

```

```

| 0 %
~calculating
|+| 1 % ~18m 18s
|++| 2 % ~18m 16s
|++| 4 % ~18m 03s
|+++| 5 % ~17m 48s
|+++| 6 % ~17m 35s
|++++| 7 % ~17m 23s
|+++++| 8 % ~17m 10s
|+++++| 10% ~16m 56s
|+++++| 11% ~16m 42s
|+++++| 12% ~16m 29s
|+++++| 13% ~16m 15s
|+++++| 14% ~16m 02s
|+++++| 15% ~15m 49s
|+++++| 17% ~15m 35s
|+++++| 18% ~15m 21s
|+++++| 19% ~15m 08s
|+++++| 20% ~14m 54s
|+++++| 21% ~14m 41s
|+++++| 23% ~14m 27s
|+++++| 24% ~14m 14s
|+++++| 25% ~14m 01s
|+++++| 26% ~13m 48s
|+++++| 27% ~13m 34s
|+++++| 29% ~13m 21s
|+++++| 30% ~13m 08s
|+++++| 31% ~12m 55s
|+++++| 32% ~12m 41s
|+++++| 33% ~12m 28s
|+++++| 35% ~12m 14s
|+++++| 36% ~12m 01s
|+++++| 37% ~11m 48s
|+++++| 38% ~11m 34s
|+++++| 39% ~11m 21s
|+++++| 40% ~11m 08s
|+++++| 42% ~10m 54s
|+++++| 43% ~10m 41s
|+++++| 44% ~10m 27s

```

+++++	45%	~10m	14s
+++++	46%	~10m	01s
+++++	48%	~09m	47s
+++++	49%	~09m	34s
+++++	50%	~09m	21s
+++++	51%	~09m	07s
+++++	52%	~08m	54s
+++++	54%	~08m	40s
+++++	55%	~08m	27s
+++++	56%	~08m	14s
+++++	57%	~08m	00s
+++++	58%	~07m	47s
+++++	60%	~07m	34s
+++++	61%	~07m	20s
+++++	62%	~07m	07s
+++++	63%	~06m	53s
+++++	64%	~06m	40s
+++++	65%	~06m	27s
+++++	67%	~06m	14s
+++++	68%	~06m	00s
+++++	69%	~05m	47s
+++++	70%	~05m	34s
+++++	71%	~05m	20s
+++++	73%	~05m	07s
+++++	74%	~04m	54s
+++++	75%	~04m	40s
+++++	76%	~04m	27s
+++++	77%	~04m	14s
+++++	79%	~04m	00s
+++++	80%	~03m	47s
+++++	81%	~03m	34s
+++++	82%	~03m	20s
+++++	83%	~03m	07s
+++++	85%	~02m	53s
+++++	86%	~02m	40s
+++++	87%	~02m	27s
+++++	88%	~02m	13s
+++++	89%	~02m	00s
+++++	90%	~01m	47s
+++++	92%	~01m	33s
+++++	93%	~01m	20s
+++++	94%	~01m	07s
+++++	95%	~53s	
+++++	96%	~40s	
+++++	98%	~27s	
+++++	99%	~13s	
+++++	100%		

elapsed=18m 32s

gamma = -0.8

MMD_1%	TSLS_1%	MMD_5%	TSLS_5%	MMD_10%	TSLS_10%
1	1	1	1	1	1

|
~calculating

| 0 %

+++++	65%	~06m	29s
+++++	67%	~06m	15s
+++++	68%	~06m	02s
+++++	69%	~05m	49s
+++++	70%	~05m	35s
+++++	71%	~05m	22s
+++++	73%	~05m	09s
+++++	74%	~04m	55s
+++++	75%	~04m	42s
+++++	76%	~04m	28s
+++++	77%	~04m	15s
+++++	79%	~04m	01s
+++++	80%	~03m	48s
+++++	81%	~03m	35s
+++++	82%	~03m	21s
+++++	83%	~03m	08s
+++++	85%	~02m	54s
+++++	86%	~02m	41s
+++++	87%	~02m	28s
+++++	88%	~02m	14s
+++++	89%	~02m	01s
+++++	90%	~01m	47s
+++++	92%	~01m	34s
+++++	93%	~01m	20s
+++++	94%	~01m	07s
+++++	95%	~54s	
+++++	96%	~40s	
+++++	98%	~27s	
+++++	99%	~13s	
+++++	100%		

elapsed=18m 38s

MMD_1%	TSLS_1%	MMD_5%	TSLS_5%	MMD_10%	TSLS_10%
1.000	0.047	1.000	0.133	1.000	0.206

g = 3

		0 %
~calculating		
+		1 % ~18m 32s
++		2 % ~18m 19s
++		4 % ~18m 05s
+++		5 % ~17m 48s
+++		6 % ~17m 36s
++++		7 % ~17m 25s
+++++		8 % ~17m 11s
+++++		10% ~16m 57s
+++++		11% ~16m 43s
+++++		12% ~16m 30s
+++++		13% ~16m 16s
+++++		14% ~16m 03s
+++++		15% ~15m 49s
+++++		17% ~15m 36s
+++++		18% ~15m 22s
+++++		19% ~15m 09s
+++++		20% ~14m 56s

+++++	21%	~14m	42s
+++++	23%	~14m	29s
+++++	24%	~14m	15s
+++++	25%	~14m	02s
+++++	26%	~13m	49s
+++++	27%	~13m	36s
+++++	29%	~13m	22s
+++++	30%	~13m	09s
+++++	31%	~12m	56s
+++++	32%	~12m	42s
+++++	33%	~12m	29s
+++++	35%	~12m	15s
+++++	36%	~12m	02s
+++++	37%	~11m	48s
+++++	38%	~11m	35s
+++++	39%	~11m	22s
+++++	40%	~11m	08s
+++++	42%	~10m	55s
+++++	43%	~10m	42s
+++++	44%	~10m	28s
+++++	45%	~10m	15s
+++++	46%	~10m	02s
+++++	48%	~09m	48s
+++++	49%	~09m	35s
+++++	50%	~09m	21s
+++++	51%	~09m	08s
+++++	52%	~08m	55s
+++++	54%	~08m	41s
+++++	55%	~08m	28s
+++++	56%	~08m	15s
+++++	57%	~08m	01s
+++++	58%	~07m	48s
+++++	60%	~07m	34s
+++++	61%	~07m	21s
+++++	62%	~07m	08s
+++++	63%	~06m	54s
+++++	64%	~06m	41s
+++++	65%	~06m	28s
+++++	67%	~06m	14s
+++++	68%	~06m	01s
+++++	69%	~05m	47s
+++++	70%	~05m	34s
+++++	71%	~05m	21s
+++++	73%	~05m	07s
+++++	74%	~04m	54s
+++++	75%	~04m	41s
+++++	76%	~04m	27s
+++++	77%	~04m	14s
+++++	79%	~04m	01s
+++++	80%	~03m	47s
+++++	81%	~03m	34s
+++++	82%	~03m	21s
+++++	83%	~03m	07s
+++++	85%	~02m	54s

+++++	86%	~02m 40s
+++++	87%	~02m 27s
+++++	88%	~02m 14s
+++++	89%	~02m 00s
+++++	90%	~01m 47s
+++++	92%	~01m 34s
+++++	93%	~01m 20s
+++++	94%	~01m 07s
+++++	95%	~53s
+++++	96%	~40s
+++++	98%	~27s
+++++	99%	~13s
+++++	100%	

elapsed=18m 34s
gamma = -0.6
MMD_1% MMD_5% MMD_10%
1 1 1
g = 3

	0 %
~calculating	
+	1 % ~18m 33s
++	2 % ~18m 21s
++	4 % ~18m 11s
+++	5 % ~17m 56s
+++	6 % ~17m 44s
++++	7 % ~17m 30s
++++	8 % ~17m 19s
++++	10% ~17m 05s
++++	11% ~16m 51s
++++	12% ~16m 37s
++++	13% ~16m 23s
++++	14% ~16m 09s
++++	15% ~15m 56s
++++	17% ~15m 43s
++++	18% ~15m 29s
++++	19% ~15m 16s
++++	20% ~15m 02s
++++	21% ~14m 49s
++++	23% ~14m 35s
++++	24% ~14m 21s
++++	25% ~14m 08s
++++	26% ~13m 55s
++++	27% ~13m 41s
++++	29% ~13m 28s
++++	30% ~13m 14s
++++	31% ~13m 01s
++++	32% ~12m 47s
++++	33% ~12m 34s
++++	35% ~12m 21s
++++	36% ~12m 07s
++++	37% ~11m 54s
++++	38% ~11m 41s
++++	39% ~11m 27s

+++++	40%	~11m	14s
+++++	42%	~10m	60s
+++++	43%	~10m	46s
+++++	44%	~10m	33s
+++++	45%	~10m	20s
+++++	46%	~10m	06s
+++++	48%	~09m	53s
+++++	49%	~09m	39s
+++++	50%	~09m	26s
+++++	51%	~09m	12s
+++++	52%	~08m	59s
+++++	54%	~08m	45s
+++++	55%	~08m	32s
+++++	56%	~08m	18s
+++++	57%	~08m	05s
+++++	58%	~07m	51s
+++++	60%	~07m	38s
+++++	61%	~07m	25s
+++++	62%	~07m	11s
+++++	63%	~06m	58s
+++++	64%	~06m	44s
+++++	65%	~06m	31s
+++++	67%	~06m	17s
+++++	68%	~06m	04s
+++++	69%	~05m	50s
+++++	70%	~05m	37s
+++++	71%	~05m	23s
+++++	73%	~05m	10s
+++++	74%	~04m	56s
+++++	75%	~04m	43s
+++++	76%	~04m	29s
+++++	77%	~04m	16s
+++++	79%	~04m	02s
+++++	80%	~03m	49s
+++++	81%	~03m	36s
+++++	82%	~03m	22s
+++++	83%	~03m	09s
+++++	85%	~02m	55s
+++++	86%	~02m	42s
+++++	87%	~02m	28s
+++++	88%	~02m	15s
+++++	89%	~02m	01s
+++++	90%	~01m	48s
+++++	92%	~01m	34s
+++++	93%	~01m	21s
+++++	94%	~01m	07s
+++++	95%	~54s	
+++++	96%	~40s	
+++++	98%	~27s	
+++++	99%	~13s	
+++++	100%		

elapsed=18m 43s

gamma = -0.6

MMD_1% TSLS_1% MMD_5% TSLS_5% MMD_10% TSLS_10%

0.996 1.000 0.998 1.000 0.999 1.000

		0 %
~calculating		
+		1 % ~18m 41s
++		2 % ~18m 28s
++		4 % ~18m 15s
+++		5 % ~18m 02s
+++		6 % ~17m 48s
++++		7 % ~17m 36s
++++		8 % ~17m 23s
+++++		10% ~17m 09s
+++++		11% ~16m 56s
+++++		12% ~16m 42s
++++++		13% ~16m 28s
++++++		14% ~16m 15s
++++++		15% ~16m 02s
++++++		17% ~15m 48s
++++++		18% ~15m 34s
++++++		19% ~15m 21s
++++++		20% ~15m 07s
++++++		21% ~14m 53s
++++++		23% ~14m 39s
++++++		24% ~14m 26s
++++++		25% ~14m 12s
++++++		26% ~13m 59s
++++++		27% ~13m 45s
++++++		29% ~13m 32s
++++++		30% ~13m 18s
++++++		31% ~13m 05s
++++++		32% ~12m 51s
++++++		33% ~12m 38s
++++++		35% ~12m 24s
++++++		36% ~12m 11s
++++++		37% ~12m 05s
++++++		38% ~11m 53s
++++++		39% ~11m 40s
++++++		40% ~11m 26s
++++++		42% ~11m 12s
++++++		43% ~10m 58s
++++++		44% ~10m 44s
++++++		45% ~10m 30s
++++++		46% ~10m 16s
++++++		48% ~10m 02s
++++++		49% ~09m 48s
++++++		50% ~09m 35s
++++++		51% ~09m 21s
++++++		52% ~09m 07s
++++++		54% ~08m 53s
++++++		55% ~08m 39s
++++++		56% ~08m 26s
++++++		57% ~08m 12s
++++++		58% ~07m 58s
++++++		60% ~07m 44s

+++++	61%	~07m	31s
+++++	62%	~07m	17s
+++++	63%	~07m	03s
+++++	64%	~06m	49s
+++++	65%	~06m	36s
+++++	67%	~06m	22s
+++++	68%	~06m	08s
+++++	69%	~05m	55s
+++++	70%	~05m	41s
+++++	71%	~05m	27s
+++++	73%	~05m	14s
+++++	74%	~05m	00s
+++++	75%	~04m	46s
+++++	76%	~04m	33s
+++++	77%	~04m	19s
+++++	79%	~04m	05s
+++++	80%	~03m	52s
+++++	81%	~03m	38s
+++++	82%	~03m	24s
+++++	83%	~03m	11s
+++++	85%	~02m	57s
+++++	86%	~02m	44s
+++++	87%	~02m	30s
+++++	88%	~02m	16s
+++++	89%	~02m	03s
+++++	90%	~01m	49s
+++++	92%	~01m	35s
+++++	93%	~01m	22s
+++++	94%	~01m	08s
+++++	95%	~55s	
+++++	96%	~41s	
+++++	98%	~27s	
+++++	99%	~14s	
+++++	100%		

elapsed=18m 56s

MMD_1%	TSL5_1%	MMD_5%	TSL5_5%	MMD_10%	TSL5_10%
1.000	0.045	1.000	0.127	1.000	0.192

g = 4

	0 %
~calculating	
+	1 % ~18m 32s
++	2 % ~18m 21s
++	4 % ~18m 07s
+++	5 % ~17m 55s
+++	6 % ~17m 43s
++++	7 % ~17m 31s
+++++	8 % ~17m 18s
+++++	10% ~17m 04s
+++++	11% ~16m 50s
+++++	12% ~16m 36s
+++++	13% ~16m 23s
+++++	14% ~16m 09s
+++++	15% ~15m 57s

+++++	17%	~15m	43s
+++++	18%	~15m	29s
+++++	19%	~15m	16s
+++++	20%	~15m	03s
+++++	21%	~14m	49s
+++++	23%	~14m	36s
+++++	24%	~14m	22s
+++++	25%	~14m	09s
+++++	26%	~13m	56s
+++++	27%	~13m	44s
+++++	29%	~13m	30s
+++++	30%	~13m	16s
+++++	31%	~13m	03s
+++++	32%	~12m	49s
+++++	33%	~12m	36s
+++++	35%	~12m	22s
+++++	36%	~12m	09s
+++++	37%	~11m	55s
+++++	38%	~11m	42s
+++++	39%	~11m	28s
+++++	40%	~11m	15s
+++++	42%	~11m	01s
+++++	43%	~10m	48s
+++++	44%	~10m	34s
+++++	45%	~10m	21s
+++++	46%	~10m	07s
+++++	48%	~09m	54s
+++++	49%	~09m	40s
+++++	50%	~09m	27s
+++++	51%	~09m	13s
+++++	52%	~08m	60s
+++++	54%	~08m	46s
+++++	55%	~08m	33s
+++++	56%	~08m	19s
+++++	57%	~08m	06s
+++++	58%	~07m	52s
+++++	60%	~07m	39s
+++++	61%	~07m	25s
+++++	62%	~07m	11s
+++++	63%	~06m	58s
+++++	64%	~06m	45s
+++++	65%	~06m	31s
+++++	67%	~06m	18s
+++++	68%	~06m	04s
+++++	69%	~05m	51s
+++++	70%	~05m	37s
+++++	71%	~05m	24s
+++++	73%	~05m	10s
+++++	74%	~04m	57s
+++++	75%	~04m	43s
+++++	76%	~04m	30s
+++++	77%	~04m	16s
+++++	79%	~04m	03s
+++++	80%	~03m	49s

+++++	81% ~03m 36s
+++++	82% ~03m 22s
+++++	83% ~03m 10s
+++++	85% ~02m 57s
+++++	86% ~02m 43s
+++++	87% ~02m 30s
+++++	88% ~02m 16s
+++++	89% ~02m 03s
+++++	90% ~01m 49s
+++++	92% ~01m 35s
+++++	93% ~01m 22s
+++++	94% ~01m 08s
+++++	95% ~54s
+++++	96% ~41s
+++++	98% ~27s
+++++	99% ~14s
+++++	100%

elapsed=18m 54s
gamma = -0.4
MMD_1% MMD_5% MMD_10%
1 1 1
g = 4

	0 %
~calculating	
+	1 % ~18m 38s
++	2 % ~18m 28s
++	4 % ~18m 20s
+++	5 % ~18m 07s
+++	6 % ~17m 54s
++++	7 % ~17m 41s
+++++	8 % ~17m 43s
+++++	10% ~17m 49s
++++++	11% ~17m 32s
++++++	12% ~17m 47s
++++++	13% ~17m 43s
++++++	14% ~17m 29s
++++++	15% ~17m 14s
++++++	17% ~17m 14s
++++++	18% ~17m 01s
++++++	19% ~16m 43s
++++++	20% ~16m 26s
++++++	21% ~16m 25s
++++++	23% ~16m 13s
++++++	24% ~16m 10s
++++++	25% ~16m 13s
++++++	26% ~16m 07s
++++++	27% ~15m 56s
++++++	29% ~15m 39s
++++++	30% ~15m 22s
++++++	31% ~15m 04s
++++++	32% ~14m 46s
++++++	33% ~14m 29s
++++++	35% ~14m 13s

+++++	36%	~13m	57s
+++++	37%	~13m	41s
+++++	38%	~13m	25s
+++++	39%	~13m	10s
+++++	40%	~12m	56s
+++++	42%	~12m	40s
+++++	43%	~12m	24s
+++++	44%	~12m	07s
+++++	45%	~11m	50s
+++++	46%	~11m	32s
+++++	48%	~11m	15s
+++++	49%	~10m	58s
+++++	50%	~10m	41s
+++++	51%	~10m	24s
+++++	52%	~10m	07s
+++++	54%	~09m	51s
+++++	55%	~09m	34s
+++++	56%	~09m	18s
+++++	57%	~09m	02s
+++++	58%	~08m	46s
+++++	60%	~08m	30s
+++++	61%	~08m	14s
+++++	62%	~07m	58s
+++++	63%	~07m	42s
+++++	64%	~07m	27s
+++++	65%	~07m	11s
+++++	67%	~06m	56s
+++++	68%	~06m	42s
+++++	69%	~06m	26s
+++++	70%	~06m	18s
+++++	71%	~06m	06s
+++++	73%	~05m	57s
+++++	74%	~05m	48s
+++++	75%	~05m	35s
+++++	76%	~05m	18s
+++++	77%	~05m	02s
+++++	79%	~04m	46s
+++++	80%	~04m	29s
+++++	81%	~04m	14s
+++++	82%	~03m	57s
+++++	83%	~03m	43s
+++++	85%	~03m	30s
+++++	86%	~03m	14s
+++++	87%	~02m	57s
+++++	88%	~02m	41s
+++++	89%	~02m	28s
+++++	90%	~02m	12s
+++++	92%	~01m	57s
+++++	93%	~01m	41s
+++++	94%	~01m	25s
+++++	95%	~01m	08s
+++++	96%	~51s	
+++++	98%	~34s	
+++++	99%	~17s	

```
|+++++| 100%
elapsed=23m 29s
gamma = -0.4
MMD_1%  TSLS_1%  MMD_5%  TSLS_5%  MMD_10%  TSLS_10%
0.806   0.882   0.949   0.965   0.980   0.987
```

```
|
~calculating | 0 %
|+ | 1 % ~19m 23s
|++ | 2 % ~26m 01s
|++ | 4 % ~33m 32s
|+++ | 5 % ~36m 50s
|+++ | 6 % ~33m 45s
|++++ | 7 % ~31m 06s
|+++++ | 8 % ~29m 21s
|+++++ | 10% ~28m 05s
|++++++ | 11% ~28m 24s
|++++++ | 12% ~27m 10s
|+++++++ | 13% ~26m 00s
|+++++++ | 14% ~25m 08s
|+++++++ | 15% ~24m 22s
|+++++++ | 17% ~23m 48s
|+++++++ | 18% ~23m 11s
|+++++++ | 19% ~22m 34s
|+++++++ | 20% ~22m 04s
|+++++++ | 21% ~21m 29s
|+++++++ | 23% ~21m 02s
|+++++++ | 24% ~20m 27s
|+++++++ | 25% ~19m 53s
|+++++++ | 26% ~19m 20s
|+++++++ | 27% ~18m 51s
|+++++++ | 29% ~18m 23s
|+++++++ | 30% ~17m 59s
|+++++++ | 31% ~17m 34s
|+++++++ | 32% ~17m 09s
|+++++++ | 33% ~16m 46s
|+++++++ | 35% ~16m 21s
|+++++++ | 36% ~16m 06s
|+++++++ | 37% ~15m 45s
|+++++++ | 38% ~15m 22s
|+++++++ | 39% ~15m 02s
|+++++++ | 40% ~14m 42s
|+++++++ | 42% ~14m 23s
|+++++++ | 43% ~14m 06s
|+++++++ | 44% ~13m 47s
|+++++++ | 45% ~13m 29s
|+++++++ | 46% ~13m 11s
|+++++++ | 48% ~12m 50s
|+++++++ | 49% ~12m 32s
|+++++++ | 50% ~12m 13s
|+++++++ | 51% ~11m 54s
|+++++++ | 52% ~11m 36s
|+++++++ | 54% ~11m 17s
|+++++++ | 55% ~10m 58s
```

+++++	56% ~10m 41s
+++++	57% ~10m 21s
+++++	58% ~10m 02s
+++++	60% ~09m 43s
+++++	61% ~09m 24s
+++++	62% ~09m 06s
+++++	63% ~08m 47s
+++++	64% ~08m 30s
+++++	65% ~08m 13s
+++++	67% ~07m 55s
+++++	68% ~07m 37s
+++++	69% ~07m 19s
+++++	70% ~07m 01s
+++++	71% ~06m 43s
+++++	73% ~06m 26s
+++++	74% ~06m 09s
+++++	75% ~05m 52s
+++++	76% ~05m 35s
+++++	77% ~05m 18s
+++++	79% ~05m 01s
+++++	80% ~04m 44s
+++++	81% ~04m 27s
+++++	82% ~04m 10s
+++++	83% ~03m 53s
+++++	85% ~03m 36s
+++++	86% ~03m 20s
+++++	87% ~03m 03s
+++++	88% ~02m 46s
+++++	89% ~02m 30s
+++++	90% ~02m 13s
+++++	92% ~01m 57s
+++++	93% ~01m 40s
+++++	94% ~01m 23s
+++++	95% ~01m 06s
+++++	96% ~50s
+++++	98% ~33s
+++++	99% ~17s
+++++	100%

elapsed=23m 01s

MMD_1%	TSL5_1%	MMD_5%	TSL5_5%	MMD_10%	TSL5_10%
1.000	0.038	1.000	0.118	1.000	0.182

g = 5

	0 %
~calculating	
+	1 % ~20m 48s
++	2 % ~19m 48s
++	4 % ~20m 41s
+++	5 % ~20m 50s
+++	6 % ~21m 02s
++++	7 % ~20m 45s
+++++	8 % ~20m 38s
+++++	10% ~20m 04s
+++++	11% ~19m 33s

++++++	12% ~19m 05s
+++++++	13% ~18m 39s
++++++++	14% ~18m 15s
+++++++++	15% ~17m 53s
+++++++++	17% ~17m 31s
+++++++++	18% ~17m 13s
+++++++++	19% ~16m 55s
+++++++++	20% ~16m 43s
+++++++++	21% ~16m 30s
+++++++++	23% ~16m 11s
+++++++++	24% ~15m 53s
+++++++++	25% ~15m 35s
+++++++++	26% ~15m 17s
+++++++++	27% ~14m 60s
+++++++++	29% ~14m 46s
+++++++++	30% ~14m 31s
+++++++++	31% ~14m 23s
+++++++++	32% ~14m 09s
+++++++++	33% ~13m 55s
+++++++++	35% ~13m 38s
+++++++++	36% ~13m 22s
+++++++++	37% ~13m 08s
+++++++++	38% ~12m 57s
+++++++++	39% ~12m 45s
+++++++++	40% ~12m 29s
+++++++++	42% ~12m 14s
+++++++++	43% ~12m 01s
+++++++++	44% ~11m 46s
+++++++++	45% ~11m 31s
+++++++++	46% ~11m 17s
+++++++++	48% ~11m 01s
+++++++++	49% ~10m 48s
+++++++++	50% ~10m 33s
+++++++++	51% ~10m 17s
+++++++++	52% ~10m 04s
+++++++++	54% ~09m 48s
+++++++++	55% ~09m 34s
+++++++++	56% ~09m 19s
+++++++++	57% ~09m 04s
+++++++++	58% ~08m 49s
+++++++++	60% ~08m 34s
+++++++++	61% ~08m 19s
+++++++++	62% ~08m 04s
+++++++++	63% ~07m 49s
+++++++++	64% ~07m 34s
+++++++++	65% ~07m 19s
+++++++++	67% ~07m 04s
+++++++++	68% ~06m 49s
+++++++++	69% ~06m 34s
+++++++++	70% ~06m 18s
+++++++++	71% ~06m 03s
+++++++++	73% ~05m 48s
+++++++++	74% ~05m 32s
+++++++++	75% ~05m 17s

+++++	76%	~05m 02s
+++++	77%	~04m 46s
+++++	79%	~04m 31s
+++++	80%	~04m 15s
+++++	81%	~04m 00s
+++++	82%	~03m 45s
+++++	83%	~03m 30s
+++++	85%	~03m 15s
+++++	86%	~02m 59s
+++++	87%	~02m 44s
+++++	88%	~02m 29s
+++++	89%	~02m 14s
+++++	90%	~01m 59s
+++++	92%	~01m 44s
+++++	93%	~01m 29s
+++++	94%	~01m 15s
+++++	95%	~60s
+++++	96%	~45s
+++++	98%	~30s
+++++	99%	~15s
+++++	100%	

elapsed=20m 44s
gamma = -0.2
MMD_1% MMD_5% MMD_10%
0.797 0.951 0.970
g = 5

	0 %
~calculating	
+	1 % ~21m 41s
++	2 % ~20m 25s
++	4 % ~20m 20s
+++	5 % ~19m 53s
+++	6 % ~19m 28s
++++	7 % ~19m 15s
+++++	8 % ~19m 03s
+++++	10% ~18m 41s
+++++	11% ~18m 21s
+++++	12% ~18m 08s
+++++	13% ~18m 05s
+++++	14% ~17m 53s
+++++	15% ~17m 45s
+++++	17% ~17m 28s
+++++	18% ~17m 17s
+++++	19% ~16m 58s
+++++	20% ~16m 39s
+++++	21% ~16m 22s
+++++	23% ~16m 04s
+++++	24% ~15m 47s
+++++	25% ~15m 30s
+++++	26% ~15m 13s
+++++	27% ~14m 57s
+++++	29% ~14m 41s
+++++	30% ~14m 24s

+++++	31%	~14m	08s
+++++	32%	~13m	53s
+++++	33%	~13m	37s
+++++	35%	~13m	21s
+++++	36%	~13m	06s
+++++	37%	~12m	50s
+++++	38%	~12m	35s
+++++	39%	~12m	20s
+++++	40%	~12m	05s
+++++	42%	~11m	50s
+++++	43%	~11m	35s
+++++	44%	~11m	20s
+++++	45%	~11m	05s
+++++	46%	~10m	50s
+++++	48%	~10m	35s
+++++	49%	~10m	20s
+++++	50%	~10m	05s
+++++	51%	~09m	51s
+++++	52%	~09m	36s
+++++	54%	~09m	21s
+++++	55%	~09m	07s
+++++	56%	~08m	52s
+++++	57%	~08m	37s
+++++	58%	~08m	23s
+++++	60%	~08m	08s
+++++	61%	~07m	54s
+++++	62%	~07m	39s
+++++	63%	~07m	25s
+++++	64%	~07m	10s
+++++	65%	~06m	56s
+++++	67%	~06m	41s
+++++	68%	~06m	27s
+++++	69%	~06m	13s
+++++	70%	~05m	58s
+++++	71%	~05m	44s
+++++	73%	~05m	29s
+++++	74%	~05m	15s
+++++	75%	~05m	00s
+++++	76%	~04m	46s
+++++	77%	~04m	32s
+++++	79%	~04m	17s
+++++	80%	~04m	03s
+++++	81%	~03m	49s
+++++	82%	~03m	34s
+++++	83%	~03m	20s
+++++	85%	~03m	06s
+++++	86%	~02m	51s
+++++	87%	~02m	37s
+++++	88%	~02m	23s
+++++	89%	~02m	09s
+++++	90%	~01m	54s
+++++	92%	~01m	40s
+++++	93%	~01m	26s
+++++	94%	~01m	12s

```

|+++++| 95% ~57s
|+++++| 96% ~43s
|+++++| 98% ~29s
|+++++| 99% ~14s
|+++++| 100%

```

elapsed=19m 57s

gamma = -0.2

MMD_1%	TSLS_1%	MMD_5%	TSLS_5%	MMD_10%	TSLS_10%
0.185	0.201	0.417	0.434	0.547	0.553

```

|                                     | 0 %
~calculating
|+                                     | 1 % ~23m 19s
|++                                    | 2 % ~22m 30s
|++                                    | 4 % ~21m 35s
|+++                                   | 5 % ~21m 01s
|+++                                   | 6 % ~20m 44s
|++++                                  | 7 % ~20m 33s
|++++                                  | 8 % ~20m 15s
|+++++                                 | 10% ~19m 57s
|+++++                                 | 11% ~19m 32s
|+++++                                 | 12% ~19m 06s
|+++++                                 | 13% ~18m 41s
|+++++                                 | 14% ~18m 29s
|+++++                                 | 15% ~18m 12s
|+++++                                 | 17% ~17m 51s
|+++++                                 | 18% ~17m 30s
|+++++                                 | 19% ~17m 10s
|+++++                                 | 20% ~16m 51s
|+++++                                 | 21% ~16m 35s
|+++++                                 | 23% ~16m 23s
|+++++                                 | 24% ~16m 08s
|+++++                                 | 25% ~15m 52s
|+++++                                 | 26% ~15m 41s
|+++++                                 | 27% ~15m 25s
|+++++                                 | 29% ~15m 08s
|+++++                                 | 30% ~14m 54s
|+++++                                 | 31% ~14m 38s
|+++++                                 | 32% ~14m 23s
|+++++                                 | 33% ~14m 07s
|+++++                                 | 35% ~13m 50s
|+++++                                 | 36% ~13m 35s
|+++++                                 | 37% ~13m 19s
|+++++                                 | 38% ~13m 02s
|+++++                                 | 39% ~12m 46s
|+++++                                 | 40% ~12m 31s
|+++++                                 | 42% ~12m 16s
|+++++                                 | 43% ~12m 05s
|+++++                                 | 44% ~11m 55s
|+++++                                 | 45% ~11m 44s
|+++++                                 | 46% ~11m 31s
|+++++                                 | 48% ~11m 15s
|+++++                                 | 49% ~10m 59s
|+++++                                 | 50% ~10m 43s

```

+++++	51%	~10m	30s
+++++	52%	~10m	19s
+++++	54%	~10m	06s
+++++	55%	~09m	49s
+++++	56%	~09m	33s
+++++	57%	~09m	16s
+++++	58%	~08m	60s
+++++	60%	~08m	43s
+++++	61%	~08m	27s
+++++	62%	~08m	11s
+++++	63%	~07m	55s
+++++	64%	~07m	39s
+++++	65%	~07m	23s
+++++	67%	~07m	07s
+++++	68%	~06m	51s
+++++	69%	~06m	35s
+++++	70%	~06m	20s
+++++	71%	~06m	04s
+++++	73%	~05m	48s
+++++	74%	~05m	33s
+++++	75%	~05m	17s
+++++	76%	~05m	02s
+++++	77%	~04m	47s
+++++	79%	~04m	31s
+++++	80%	~04m	16s
+++++	81%	~04m	01s
+++++	82%	~03m	46s
+++++	83%	~03m	30s
+++++	85%	~03m	15s
+++++	86%	~03m	00s
+++++	87%	~02m	45s
+++++	88%	~02m	30s
+++++	89%	~02m	15s
+++++	90%	~01m	60s
+++++	92%	~01m	45s
+++++	93%	~01m	30s
+++++	94%	~01m	15s
+++++	95%	~60s	
+++++	96%	~45s	
+++++	98%	~30s	
+++++	99%	~15s	
+++++	100%		

elapsed=20m 40s

MMD_1%	TSLS_1%	MMD_5%	TSLS_5%	MMD_10%	TSLS_10%
1.000	0.029	1.000	0.100	1.000	0.159

g = 6

	0 %
~calculating	
+	1 % ~19m 29s
++	2 % ~19m 10s
++	4 % ~18m 51s
+++	5 % ~18m 37s
+++	6 % ~18m 22s

++++	7 % ~18m 06s
+++++	8 % ~17m 52s
+++++	10% ~17m 38s
+++++	11% ~17m 24s
+++++	12% ~17m 11s
+++++	13% ~16m 56s
+++++	14% ~16m 42s
+++++	15% ~16m 28s
+++++	17% ~16m 14s
+++++	18% ~16m 00s
+++++	19% ~15m 46s
+++++	20% ~15m 32s
+++++	21% ~15m 18s
+++++	23% ~15m 04s
+++++	24% ~14m 50s
+++++	25% ~14m 36s
+++++	26% ~14m 22s
+++++	27% ~14m 08s
+++++	29% ~13m 54s
+++++	30% ~13m 40s
+++++	31% ~13m 26s
+++++	32% ~13m 13s
+++++	33% ~12m 59s
+++++	35% ~12m 45s
+++++	36% ~12m 31s
+++++	37% ~12m 17s
+++++	38% ~12m 03s
+++++	39% ~11m 49s
+++++	40% ~11m 35s
+++++	42% ~11m 21s
+++++	43% ~11m 07s
+++++	44% ~10m 53s
+++++	45% ~10m 39s
+++++	46% ~10m 26s
+++++	48% ~10m 12s
+++++	49% ~09m 58s
+++++	50% ~09m 44s
+++++	51% ~09m 30s
+++++	52% ~09m 16s
+++++	54% ~09m 02s
+++++	55% ~08m 48s
+++++	56% ~08m 34s
+++++	57% ~08m 20s
+++++	58% ~08m 06s
+++++	60% ~07m 52s
+++++	61% ~07m 38s
+++++	62% ~07m 25s
+++++	63% ~07m 11s
+++++	64% ~06m 57s
+++++	65% ~06m 43s
+++++	67% ~06m 29s
+++++	68% ~06m 15s
+++++	69% ~06m 01s
+++++	70% ~05m 47s

+++++	71%	~05m	33s
+++++	73%	~05m	19s
+++++	74%	~05m	05s
+++++	75%	~04m	52s
+++++	76%	~04m	38s
+++++	77%	~04m	24s
+++++	79%	~04m	10s
+++++	80%	~03m	56s
+++++	81%	~03m	42s
+++++	82%	~03m	28s
+++++	83%	~03m	14s
+++++	85%	~03m	00s
+++++	86%	~02m	47s
+++++	87%	~02m	33s
+++++	88%	~02m	19s
+++++	89%	~02m	05s
+++++	90%	~01m	51s
+++++	92%	~01m	37s
+++++	93%	~01m	23s
+++++	94%	~01m	09s
+++++	95%	~55s	
+++++	96%	~42s	
+++++	98%	~28s	
+++++	99%	~14s	
+++++	100%		

elapsed=19m 16s

gamma = 0

MMD_1% MMD_5% MMD_10%
0.010 0.052 0.102

g = 6

	0 %
~calculating	
+	1 % ~19m 18s
++	2 % ~19m 09s
++	4 % ~18m 58s
+++	5 % ~18m 45s
+++	6 % ~18m 31s
++++	7 % ~18m 16s
+++++	8 % ~18m 03s
+++++	10% ~17m 48s
+++++	11% ~17m 34s
+++++	12% ~17m 21s
+++++	13% ~17m 07s
+++++	14% ~16m 53s
+++++	15% ~16m 39s
+++++	17% ~16m 24s
+++++	18% ~16m 10s
+++++	19% ~15m 56s
+++++	20% ~15m 42s
+++++	21% ~15m 28s
+++++	23% ~15m 14s
+++++	24% ~14m 60s
+++++	25% ~14m 45s

+++++	26%	~14m	31s
+++++	27%	~14m	17s
+++++	29%	~14m	03s
+++++	30%	~13m	49s
+++++	31%	~13m	35s
+++++	32%	~13m	21s
+++++	33%	~13m	06s
+++++	35%	~12m	52s
+++++	36%	~12m	38s
+++++	37%	~12m	24s
+++++	38%	~12m	10s
+++++	39%	~11m	56s
+++++	40%	~11m	41s
+++++	42%	~11m	27s
+++++	43%	~11m	12s
+++++	44%	~10m	58s
+++++	45%	~10m	43s
+++++	46%	~10m	29s
+++++	48%	~10m	14s
+++++	49%	~10m	00s
+++++	50%	~09m	46s
+++++	51%	~09m	31s
+++++	52%	~09m	17s
+++++	54%	~09m	03s
+++++	55%	~08m	49s
+++++	56%	~08m	35s
+++++	57%	~08m	21s
+++++	58%	~08m	07s
+++++	60%	~07m	53s
+++++	61%	~07m	38s
+++++	62%	~07m	24s
+++++	63%	~07m	10s
+++++	64%	~06m	56s
+++++	65%	~06m	42s
+++++	67%	~06m	28s
+++++	68%	~06m	14s
+++++	69%	~06m	00s
+++++	70%	~05m	46s
+++++	71%	~05m	32s
+++++	73%	~05m	19s
+++++	74%	~05m	05s
+++++	75%	~04m	51s
+++++	76%	~04m	37s
+++++	77%	~04m	23s
+++++	79%	~04m	09s
+++++	80%	~03m	55s
+++++	81%	~03m	41s
+++++	82%	~03m	27s
+++++	83%	~03m	13s
+++++	85%	~02m	60s
+++++	86%	~02m	46s
+++++	87%	~02m	32s
+++++	88%	~02m	18s
+++++	89%	~02m	04s

```

|+++++| 90% ~01m 50s
|+++++| 92% ~01m 37s
|+++++| 93% ~01m 23s
|+++++| 94% ~01m 09s
|+++++| 95% ~55s
|+++++| 96% ~41s
|+++++| 98% ~28s
|+++++| 99% ~14s
|+++++| 100%

```

elapsed=19m 09s

gamma = 0

MMD_1%	TSL5_1%	MMD_5%	TSL5_5%	MMD_10%	TSL5_10%
0.009	0.007	0.044	0.044	0.098	0.094

```

| 0 %
~calculating
|+| 1 % ~18m 52s
|++| 2 % ~18m 41s
|++| 4 % ~18m 26s
|+++| 5 % ~18m 14s
|+++| 6 % ~17m 59s
|++++| 7 % ~17m 46s
|+++++| 8 % ~17m 32s
|+++++| 10% ~17m 21s
|+++++| 11% ~17m 07s
|+++++| 12% ~16m 54s
|+++++| 13% ~16m 40s
|+++++| 14% ~16m 26s
|+++++| 15% ~16m 13s
|+++++| 17% ~15m 59s
|+++++| 18% ~15m 46s
|+++++| 19% ~15m 34s
|+++++| 20% ~15m 20s
|+++++| 21% ~15m 06s
|+++++| 23% ~14m 52s
|+++++| 24% ~14m 38s
|+++++| 25% ~14m 25s
|+++++| 26% ~14m 11s
|+++++| 27% ~13m 57s
|+++++| 29% ~13m 43s
|+++++| 30% ~13m 30s
|+++++| 31% ~13m 16s
|+++++| 32% ~13m 02s
|+++++| 33% ~12m 48s
|+++++| 35% ~12m 35s
|+++++| 36% ~12m 21s
|+++++| 37% ~12m 08s
|+++++| 38% ~11m 54s
|+++++| 39% ~11m 41s
|+++++| 40% ~11m 27s
|+++++| 42% ~11m 13s
|+++++| 43% ~10m 59s
|+++++| 44% ~10m 46s
|+++++| 45% ~10m 32s

```

+++++	46% ~10m 18s
+++++	48% ~10m 05s
+++++	49% ~09m 51s
+++++	50% ~09m 37s
+++++	51% ~09m 23s
+++++	52% ~09m 10s
+++++	54% ~08m 56s
+++++	55% ~08m 42s
+++++	56% ~08m 29s
+++++	57% ~08m 15s
+++++	58% ~08m 01s
+++++	60% ~07m 47s
+++++	61% ~07m 34s
+++++	62% ~07m 20s
+++++	63% ~07m 06s
+++++	64% ~06m 52s
+++++	65% ~06m 39s
+++++	67% ~06m 25s
+++++	68% ~06m 11s
+++++	69% ~05m 57s
+++++	70% ~05m 44s
+++++	71% ~05m 30s
+++++	73% ~05m 16s
+++++	74% ~05m 02s
+++++	75% ~04m 49s
+++++	76% ~04m 35s
+++++	77% ~04m 21s
+++++	79% ~04m 07s
+++++	80% ~03m 54s
+++++	81% ~03m 40s
+++++	82% ~03m 26s
+++++	83% ~03m 12s
+++++	85% ~02m 59s
+++++	86% ~02m 45s
+++++	87% ~02m 31s
+++++	88% ~02m 17s
+++++	89% ~02m 04s
+++++	90% ~01m 50s
+++++	92% ~01m 36s
+++++	93% ~01m 22s
+++++	94% ~01m 09s
+++++	95% ~55s
+++++	96% ~41s
+++++	98% ~27s
+++++	99% ~14s
+++++	100%

elapsed=19m 06s

MMD_1%	TSLS_1%	MMD_5%	TSLS_5%	MMD_10%	TSLS_10%
0.012	0.010	0.058	0.058	0.105	0.100

g = 7

	0 %
~calculating	
+	1 % ~18m 54s

+++++	67%	~06m	21s
+++++	68%	~06m	07s
+++++	69%	~05m	53s
+++++	70%	~05m	40s
+++++	71%	~05m	26s
+++++	73%	~05m	13s
+++++	74%	~04m	59s
+++++	75%	~04m	45s
+++++	76%	~04m	32s
+++++	77%	~04m	18s
+++++	79%	~04m	05s
+++++	80%	~03m	51s
+++++	81%	~03m	37s
+++++	82%	~03m	24s
+++++	83%	~03m	10s
+++++	85%	~02m	57s
+++++	86%	~02m	43s
+++++	87%	~02m	30s
+++++	88%	~02m	16s
+++++	89%	~02m	02s
+++++	90%	~01m	49s
+++++	92%	~01m	35s
+++++	93%	~01m	22s
+++++	94%	~01m	08s
+++++	95%	~54s	
+++++	96%	~41s	
+++++	98%	~27s	
+++++	99%	~14s	
+++++	100%		

elapsed=18m 53s
gamma = 0.2
MMD_1% MMD_5% MMD_10%
0.807 0.939 0.965
g = 7

		0 %
~calculating		
+		1 % ~18m 53s
++		2 % ~18m 49s
++		4 % ~18m 36s
+++		5 % ~18m 22s
+++		6 % ~18m 06s
++++		7 % ~17m 54s
+++++		8 % ~17m 39s
+++++		10% ~17m 26s
+++++		11% ~17m 11s
+++++		12% ~16m 58s
+++++		13% ~16m 44s
+++++		14% ~16m 30s
+++++		15% ~16m 17s
+++++		17% ~16m 04s
+++++		18% ~15m 51s
+++++		19% ~15m 37s
+++++		20% ~15m 23s

+++++	21% ~15m 09s
+++++	23% ~14m 55s
+++++	24% ~14m 41s
+++++	25% ~14m 29s
+++++	26% ~14m 15s
+++++	27% ~14m 01s
+++++	29% ~13m 47s
+++++	30% ~13m 33s
+++++	31% ~13m 19s
+++++	32% ~13m 06s
+++++	33% ~12m 52s
+++++	35% ~12m 38s
+++++	36% ~12m 24s
+++++	37% ~12m 10s
+++++	38% ~11m 56s
+++++	39% ~11m 42s
+++++	40% ~11m 29s
+++++	42% ~11m 15s
+++++	43% ~11m 01s
+++++	44% ~10m 47s
+++++	45% ~10m 33s
+++++	46% ~10m 20s
+++++	48% ~10m 06s
+++++	49% ~09m 52s
+++++	50% ~09m 38s
+++++	51% ~09m 24s
+++++	52% ~09m 11s
+++++	54% ~08m 57s
+++++	55% ~08m 43s
+++++	56% ~08m 29s
+++++	57% ~08m 16s
+++++	58% ~08m 02s
+++++	60% ~07m 48s
+++++	61% ~07m 34s
+++++	62% ~07m 20s
+++++	63% ~07m 07s
+++++	64% ~06m 53s
+++++	65% ~06m 39s
+++++	67% ~06m 25s
+++++	68% ~06m 11s
+++++	69% ~05m 58s
+++++	70% ~05m 44s
+++++	71% ~05m 30s
+++++	73% ~05m 16s
+++++	74% ~05m 03s
+++++	75% ~04m 49s
+++++	76% ~04m 35s
+++++	77% ~04m 21s
+++++	79% ~04m 08s
+++++	80% ~03m 54s
+++++	81% ~03m 40s
+++++	82% ~03m 26s
+++++	83% ~03m 13s
+++++	85% ~02m 59s

```

|+++++| 86% ~02m 45s
|+++++| 87% ~02m 31s
|+++++| 88% ~02m 18s
|+++++| 89% ~02m 04s
|+++++| 90% ~01m 50s
|+++++| 92% ~01m 36s
|+++++| 93% ~01m 23s
|+++++| 94% ~01m 09s
|+++++| 95% ~55s
|+++++| 96% ~41s
|+++++| 98% ~28s
|+++++| 99% ~14s
|+++++| 100%

```

elapsed=19m 07s

gamma = 0.2

MMD_1%	TSL5_1%	MMD_5%	TSL5_5%	MMD_10%	TSL5_10%
0.200	0.215	0.435	0.427	0.542	0.547

```

| 0 %
~calculating
|+| 1 % ~18m 53s
|++| 2 % ~18m 42s
|++| 4 % ~18m 28s
|+++| 5 % ~18m 15s
|+++| 6 % ~18m 02s
|++++| 7 % ~17m 49s
|+++++| 8 % ~17m 36s
|+++++| 10% ~17m 21s
|+++++| 11% ~17m 08s
|+++++| 12% ~16m 53s
|+++++| 13% ~16m 40s
|+++++| 14% ~16m 26s
|+++++| 15% ~16m 12s
|+++++| 17% ~15m 58s
|+++++| 18% ~15m 45s
|+++++| 19% ~15m 31s
|+++++| 20% ~15m 17s
|+++++| 21% ~15m 04s
|+++++| 23% ~14m 50s
|+++++| 24% ~14m 36s
|+++++| 25% ~14m 23s
|+++++| 26% ~14m 09s
|+++++| 27% ~13m 55s
|+++++| 29% ~13m 42s
|+++++| 30% ~13m 28s
|+++++| 31% ~13m 14s
|+++++| 32% ~13m 01s
|+++++| 33% ~12m 47s
|+++++| 35% ~12m 34s
|+++++| 36% ~12m 20s
|+++++| 37% ~12m 06s
|+++++| 38% ~11m 53s
|+++++| 39% ~11m 39s
|+++++| 40% ~11m 26s

```

+++++	42%	~11m	12s
+++++	43%	~10m	58s
+++++	44%	~10m	44s
+++++	45%	~10m	31s
+++++	46%	~10m	17s
+++++	48%	~10m	03s
+++++	49%	~09m	50s
+++++	50%	~09m	36s
+++++	51%	~09m	22s
+++++	52%	~09m	09s
+++++	54%	~08m	55s
+++++	55%	~08m	41s
+++++	56%	~08m	28s
+++++	57%	~08m	14s
+++++	58%	~08m	00s
+++++	60%	~07m	47s
+++++	61%	~07m	33s
+++++	62%	~07m	19s
+++++	63%	~07m	05s
+++++	64%	~06m	52s
+++++	65%	~06m	38s
+++++	67%	~06m	24s
+++++	68%	~06m	11s
+++++	69%	~05m	57s
+++++	70%	~05m	43s
+++++	71%	~05m	29s
+++++	73%	~05m	16s
+++++	74%	~05m	02s
+++++	75%	~04m	48s
+++++	76%	~04m	35s
+++++	77%	~04m	21s
+++++	79%	~04m	07s
+++++	80%	~03m	53s
+++++	81%	~03m	40s
+++++	82%	~03m	26s
+++++	83%	~03m	12s
+++++	85%	~02m	59s
+++++	86%	~02m	45s
+++++	87%	~02m	31s
+++++	88%	~02m	17s
+++++	89%	~02m	04s
+++++	90%	~01m	50s
+++++	92%	~01m	36s
+++++	93%	~01m	22s
+++++	94%	~01m	09s
+++++	95%	~55s	
+++++	96%	~41s	
+++++	98%	~28s	
+++++	99%	~14s	
+++++	100%		

elapsed=19m 06s

MMD_1%	TSLS_1%	MMD_5%	TSLS_5%	MMD_10%	TSLS_10%
1.000	0.025	1.000	0.102	1.000	0.152

g = 8

+++++	62%	~07m	18s
+++++	63%	~07m	04s
+++++	64%	~06m	50s
+++++	65%	~06m	37s
+++++	67%	~06m	23s
+++++	68%	~06m	09s
+++++	69%	~05m	56s
+++++	70%	~05m	42s
+++++	71%	~05m	28s
+++++	73%	~05m	14s
+++++	74%	~05m	01s
+++++	75%	~04m	47s
+++++	76%	~04m	33s
+++++	77%	~04m	20s
+++++	79%	~04m	06s
+++++	80%	~03m	52s
+++++	81%	~03m	39s
+++++	82%	~03m	25s
+++++	83%	~03m	11s
+++++	85%	~02m	58s
+++++	86%	~02m	44s
+++++	87%	~02m	30s
+++++	88%	~02m	17s
+++++	89%	~02m	03s
+++++	90%	~01m	49s
+++++	92%	~01m	36s
+++++	93%	~01m	22s
+++++	94%	~01m	08s
+++++	95%	~55s	
+++++	96%	~41s	
+++++	98%	~27s	
+++++	99%	~14s	
+++++	100%		

elapsed=18m 60s
gamma = 0.4
MMD_1% MMD_5% MMD_10%
1 1 1
g = 8

	0 %
~calculating	
+	1 % ~18m 59s
++	2 % ~18m 49s
++	4 % ~18m 39s
+++	5 % ~18m 34s
+++	6 % ~18m 22s
++++	7 % ~18m 06s
+++++	8 % ~17m 51s
+++++	10% ~17m 37s
+++++	11% ~17m 25s
+++++	12% ~17m 09s
+++++	13% ~16m 58s
+++++	14% ~16m 46s
+++++	15% ~16m 31s

+++++	17%	~16m	17s
+++++	18%	~16m	03s
+++++	19%	~15m	48s
+++++	20%	~15m	34s
+++++	21%	~15m	19s
+++++	23%	~15m	05s
+++++	24%	~14m	52s
+++++	25%	~14m	38s
+++++	26%	~14m	24s
+++++	27%	~14m	09s
+++++	29%	~13m	55s
+++++	30%	~13m	41s
+++++	31%	~13m	27s
+++++	32%	~13m	13s
+++++	33%	~12m	59s
+++++	35%	~12m	45s
+++++	36%	~12m	32s
+++++	37%	~12m	17s
+++++	38%	~12m	03s
+++++	39%	~11m	50s
+++++	40%	~11m	37s
+++++	42%	~11m	23s
+++++	43%	~11m	09s
+++++	44%	~10m	55s
+++++	45%	~10m	41s
+++++	46%	~10m	27s
+++++	48%	~10m	13s
+++++	49%	~09m	59s
+++++	50%	~09m	45s
+++++	51%	~09m	31s
+++++	52%	~09m	17s
+++++	54%	~09m	03s
+++++	55%	~08m	49s
+++++	56%	~08m	36s
+++++	57%	~08m	21s
+++++	58%	~08m	08s
+++++	60%	~07m	54s
+++++	61%	~07m	40s
+++++	62%	~07m	26s
+++++	63%	~07m	12s
+++++	64%	~06m	58s
+++++	65%	~06m	44s
+++++	67%	~06m	30s
+++++	68%	~06m	16s
+++++	69%	~06m	02s
+++++	70%	~05m	48s
+++++	71%	~05m	34s
+++++	73%	~05m	20s
+++++	74%	~05m	06s
+++++	75%	~04m	52s
+++++	76%	~04m	38s
+++++	77%	~04m	24s
+++++	79%	~04m	10s
+++++	80%	~03m	56s

```

|+++++| 81% ~03m 43s
|+++++| 82% ~03m 29s
|+++++| 83% ~03m 15s
|+++++| 85% ~03m 01s
|+++++| 86% ~02m 47s
|+++++| 87% ~02m 33s
|+++++| 88% ~02m 19s
|+++++| 89% ~02m 05s
|+++++| 90% ~01m 51s
|+++++| 92% ~01m 37s
|+++++| 93% ~01m 23s
|+++++| 94% ~01m 10s
|+++++| 95% ~56s
|+++++| 96% ~42s
|+++++| 98% ~28s
|+++++| 99% ~14s
|+++++| 100%

```

elapsed=19m 20s

gamma = 0.4

MMD_1%	TSL5_1%	MMD_5%	TSL5_5%	MMD_10%	TSL5_10%
0.827	0.876	0.942	0.953	0.967	0.973

```

|~calculating| 0 %
|+| 1 % ~19m 00s
|++| 2 % ~18m 53s
|++| 4 % ~18m 38s
|+++| 5 % ~18m 26s
|+++| 6 % ~18m 17s
|++++| 7 % ~18m 02s
|+++++| 8 % ~17m 48s
|+++++| 10% ~17m 34s
|+++++| 11% ~17m 20s
|+++++| 12% ~17m 06s
|+++++| 13% ~16m 51s
|+++++| 14% ~16m 38s
|+++++| 15% ~16m 24s
|+++++| 17% ~16m 10s
|+++++| 18% ~15m 56s
|+++++| 19% ~15m 42s
|+++++| 20% ~15m 28s
|+++++| 21% ~15m 15s
|+++++| 23% ~15m 01s
|+++++| 24% ~14m 47s
|+++++| 25% ~14m 33s
|+++++| 26% ~14m 19s
|+++++| 27% ~14m 06s
|+++++| 29% ~13m 51s
|+++++| 30% ~13m 37s
|+++++| 31% ~13m 24s
|+++++| 32% ~13m 10s
|+++++| 33% ~12m 56s
|+++++| 35% ~12m 42s
|+++++| 36% ~12m 28s

```

+++++	37%	~12m	15s
+++++	38%	~12m	01s
+++++	39%	~11m	47s
+++++	40%	~11m	33s
+++++	42%	~11m	19s
+++++	43%	~11m	05s
+++++	44%	~10m	52s
+++++	45%	~10m	38s
+++++	46%	~10m	24s
+++++	48%	~10m	10s
+++++	49%	~09m	56s
+++++	50%	~09m	42s
+++++	51%	~09m	28s
+++++	52%	~09m	15s
+++++	54%	~09m	01s
+++++	55%	~08m	50s
+++++	56%	~08m	38s
+++++	57%	~08m	30s
+++++	58%	~08m	24s
+++++	60%	~08m	12s
+++++	61%	~07m	58s
+++++	62%	~07m	43s
+++++	63%	~07m	28s
+++++	64%	~07m	14s
+++++	65%	~06m	59s
+++++	67%	~06m	44s
+++++	68%	~06m	30s
+++++	69%	~06m	15s
+++++	70%	~06m	01s
+++++	71%	~05m	46s
+++++	73%	~05m	31s
+++++	74%	~05m	17s
+++++	75%	~05m	02s
+++++	76%	~04m	48s
+++++	77%	~04m	33s
+++++	79%	~04m	19s
+++++	80%	~04m	04s
+++++	81%	~03m	50s
+++++	82%	~03m	35s
+++++	83%	~03m	21s
+++++	85%	~03m	06s
+++++	86%	~02m	52s
+++++	87%	~02m	38s
+++++	88%	~02m	23s
+++++	89%	~02m	09s
+++++	90%	~01m	54s
+++++	92%	~01m	40s
+++++	93%	~01m	26s
+++++	94%	~01m	11s
+++++	95%	~57s	
+++++	96%	~43s	
+++++	98%	~29s	
+++++	99%	~14s	
+++++	100%		

elapsed=19m 50s

MMD_1% TSLS_1% MMD_5% TSLS_5% MMD_10% TSLS_10%
1.000 0.034 1.000 0.115 1.000 0.170

g = 9

	0 %
~calculating	
+	1 % ~19m 19s
++	2 % ~18m 58s
++	4 % ~18m 43s
+++	5 % ~18m 27s
+++	6 % ~18m 14s
++++	7 % ~18m 02s
+++++	8 % ~17m 48s
+++++	10% ~17m 34s
+++++	11% ~17m 20s
+++++	12% ~17m 07s
+++++	13% ~16m 52s
+++++	14% ~16m 38s
+++++	15% ~16m 24s
+++++	17% ~16m 11s
+++++	18% ~15m 57s
+++++	19% ~15m 43s
+++++	20% ~15m 29s
+++++	21% ~15m 15s
+++++	23% ~15m 02s
+++++	24% ~14m 47s
+++++	25% ~14m 33s
+++++	26% ~14m 19s
+++++	27% ~14m 05s
+++++	29% ~13m 52s
+++++	30% ~13m 38s
+++++	31% ~13m 24s
+++++	32% ~13m 10s
+++++	33% ~12m 56s
+++++	35% ~12m 42s
+++++	36% ~12m 28s
+++++	37% ~12m 15s
+++++	38% ~12m 01s
+++++	39% ~11m 47s
+++++	40% ~11m 33s
+++++	42% ~11m 19s
+++++	43% ~11m 05s
+++++	44% ~10m 51s
+++++	45% ~10m 37s
+++++	46% ~10m 23s
+++++	48% ~10m 10s
+++++	49% ~09m 56s
+++++	50% ~09m 42s
+++++	51% ~09m 28s
+++++	52% ~09m 14s
+++++	54% ~09m 00s
+++++	55% ~08m 46s
+++++	56% ~08m 32s

+++++	57% ~08m 18s
+++++	58% ~08m 05s
+++++	60% ~07m 51s
+++++	61% ~07m 37s
+++++	62% ~07m 24s
+++++	63% ~07m 10s
+++++	64% ~06m 56s
+++++	65% ~06m 42s
+++++	67% ~06m 28s
+++++	68% ~06m 14s
+++++	69% ~06m 00s
+++++	70% ~05m 46s
+++++	71% ~05m 33s
+++++	73% ~05m 19s
+++++	74% ~05m 05s
+++++	75% ~04m 51s
+++++	76% ~04m 37s
+++++	77% ~04m 23s
+++++	79% ~04m 09s
+++++	80% ~03m 55s
+++++	81% ~03m 42s
+++++	82% ~03m 28s
+++++	83% ~03m 14s
+++++	85% ~03m 00s
+++++	86% ~02m 46s
+++++	87% ~02m 32s
+++++	88% ~02m 18s
+++++	89% ~02m 05s
+++++	90% ~01m 51s
+++++	92% ~01m 37s
+++++	93% ~01m 23s
+++++	94% ~01m 09s
+++++	95% ~55s
+++++	96% ~42s
+++++	98% ~28s
+++++	99% ~14s
+++++	100%

elapsed=19m 14s
gamma = 0.6
MMD_1% MMD_5% MMD_10%
1 1 1
g = 9

	0 %
~calculating	
+	1 % ~19m 05s
++	2 % ~18m 57s
++	4 % ~18m 44s
+++	5 % ~18m 31s
+++	6 % ~18m 22s
++++	7 % ~18m 08s
+++++	8 % ~17m 53s
+++++	10% ~17m 40s
+++++	11% ~17m 26s

++++++	12%	~17m	12s
+++++++	13%	~16m	58s
++++++++	14%	~16m	44s
+++++++++	15%	~16m	30s
+++++++++	17%	~16m	16s
+++++++++	18%	~16m	02s
+++++++++	19%	~15m	48s
+++++++++	20%	~15m	34s
+++++++++	21%	~15m	21s
+++++++++	23%	~15m	08s
+++++++++	24%	~14m	54s
+++++++++	25%	~14m	40s
+++++++++	26%	~14m	26s
+++++++++	27%	~14m	12s
+++++++++	29%	~13m	58s
+++++++++	30%	~13m	44s
+++++++++	31%	~13m	30s
+++++++++	32%	~13m	16s
+++++++++	33%	~13m	02s
+++++++++	35%	~12m	48s
+++++++++	36%	~12m	34s
+++++++++	37%	~12m	20s
+++++++++	38%	~12m	07s
+++++++++	39%	~11m	53s
+++++++++	40%	~11m	39s
+++++++++	42%	~11m	25s
+++++++++	43%	~11m	11s
+++++++++	44%	~10m	57s
+++++++++	45%	~10m	43s
+++++++++	46%	~10m	30s
+++++++++	48%	~10m	16s
+++++++++	49%	~10m	02s
+++++++++	50%	~09m	48s
+++++++++	51%	~09m	34s
+++++++++	52%	~09m	20s
+++++++++	54%	~09m	06s
+++++++++	55%	~08m	52s
+++++++++	56%	~08m	38s
+++++++++	57%	~08m	24s
+++++++++	58%	~08m	10s
+++++++++	60%	~07m	56s
+++++++++	61%	~07m	42s
+++++++++	62%	~07m	28s
+++++++++	63%	~07m	14s
+++++++++	64%	~06m	60s
+++++++++	65%	~06m	46s
+++++++++	67%	~06m	32s
+++++++++	68%	~06m	18s
+++++++++	69%	~06m	04s
+++++++++	70%	~05m	50s
+++++++++	71%	~05m	36s
+++++++++	73%	~05m	22s
+++++++++	74%	~05m	08s
+++++++++	75%	~04m	54s

+++++	76% ~04m 40s
+++++	77% ~04m 26s
+++++	79% ~04m 12s
+++++	80% ~03m 58s
+++++	81% ~03m 44s
+++++	82% ~03m 30s
+++++	83% ~03m 16s
+++++	85% ~03m 02s
+++++	86% ~02m 48s
+++++	87% ~02m 34s
+++++	88% ~02m 20s
+++++	89% ~02m 06s
+++++	90% ~01m 52s
+++++	92% ~01m 38s
+++++	93% ~01m 24s
+++++	94% ~01m 10s
+++++	95% ~56s
+++++	96% ~42s
+++++	98% ~28s
+++++	99% ~14s
+++++	100%

elapsed=19m 27s

gamma = 0.6

MMD_1%	TSLS_1%	MMD_5%	TSLS_5%	MMD_10%	TSLS_10%
0.994	0.998	1.000	1.000	1.000	1.000

	0 %
~calculating	
+	1 % ~19m 27s
++	2 % ~19m 14s
++	4 % ~19m 03s
+++	5 % ~18m 52s
+++	6 % ~18m 37s
++++	7 % ~18m 21s
+++++	8 % ~18m 10s
+++++	10% ~17m 53s
+++++	11% ~17m 38s
+++++	12% ~17m 23s
+++++	13% ~17m 10s
+++++	14% ~16m 55s
+++++	15% ~16m 42s
+++++	17% ~16m 27s
+++++	18% ~16m 13s
+++++	19% ~15m 59s
+++++	20% ~15m 45s
+++++	21% ~15m 30s
+++++	23% ~15m 18s
+++++	24% ~15m 03s
+++++	25% ~14m 49s
+++++	26% ~14m 34s
+++++	27% ~14m 20s
+++++	29% ~14m 06s
+++++	30% ~13m 52s
+++++	31% ~13m 38s

+++++	32%	~13m	24s
+++++	33%	~13m	09s
+++++	35%	~12m	56s
+++++	36%	~12m	41s
+++++	37%	~12m	27s
+++++	38%	~12m	13s
+++++	39%	~11m	59s
+++++	40%	~11m	45s
+++++	42%	~11m	31s
+++++	43%	~11m	16s
+++++	44%	~11m	03s
+++++	45%	~10m	49s
+++++	46%	~10m	35s
+++++	48%	~10m	20s
+++++	49%	~10m	06s
+++++	50%	~09m	52s
+++++	51%	~09m	38s
+++++	52%	~09m	24s
+++++	54%	~09m	10s
+++++	55%	~08m	56s
+++++	56%	~08m	42s
+++++	57%	~08m	28s
+++++	58%	~08m	13s
+++++	60%	~07m	59s
+++++	61%	~07m	45s
+++++	62%	~07m	31s
+++++	63%	~07m	17s
+++++	64%	~07m	03s
+++++	65%	~06m	49s
+++++	67%	~06m	35s
+++++	68%	~06m	21s
+++++	69%	~06m	07s
+++++	70%	~05m	53s
+++++	71%	~05m	39s
+++++	73%	~05m	25s
+++++	74%	~05m	10s
+++++	75%	~04m	56s
+++++	76%	~04m	42s
+++++	77%	~04m	28s
+++++	79%	~04m	14s
+++++	80%	~03m	60s
+++++	81%	~03m	46s
+++++	82%	~03m	32s
+++++	83%	~03m	17s
+++++	85%	~03m	03s
+++++	86%	~02m	49s
+++++	87%	~02m	35s
+++++	88%	~02m	21s
+++++	89%	~02m	07s
+++++	90%	~01m	53s
+++++	92%	~01m	39s
+++++	93%	~01m	25s
+++++	94%	~01m	11s
+++++	95%	~56s	

```

|+++++| 96% ~42s
|+++++| 98% ~28s
|+++++| 99% ~14s
|+++++| 100%

```

elapsed=19m 36s

```

MMD_1%  TSL_1%  MMD_5%  TSL_5%  MMD_10% TSL_10%
1.000   0.042   1.000   0.123   1.000   0.179

```

g = 10

```

|                                     | 0 %
~calculating
|+                                     | 1 % ~19m 04s
|++                                    | 2 % ~18m 54s
|+++                                   | 4 % ~18m 46s
|++++                                  | 5 % ~18m 33s
|+++++                                 | 6 % ~18m 20s
|++++++                                | 7 % ~18m 05s
|+++++++                               | 8 % ~17m 52s
|+++++++                               | 10% ~17m 39s
|+++++++                               | 11% ~17m 28s
|+++++++                               | 12% ~17m 13s
|+++++++                               | 13% ~16m 60s
|+++++++                               | 14% ~16m 45s
|+++++++                               | 15% ~16m 32s
|+++++++                               | 17% ~16m 17s
|+++++++                               | 18% ~16m 04s
|+++++++                               | 19% ~15m 50s
|+++++++                               | 20% ~15m 36s
|+++++++                               | 21% ~15m 21s
|+++++++                               | 23% ~15m 07s
|+++++++                               | 24% ~14m 53s
|+++++++                               | 25% ~14m 40s
|+++++++                               | 26% ~14m 26s
|+++++++                               | 27% ~14m 12s
|+++++++                               | 29% ~13m 58s
|+++++++                               | 30% ~13m 45s
|+++++++                               | 31% ~13m 31s
|+++++++                               | 32% ~13m 17s
|+++++++                               | 33% ~13m 03s
|+++++++                               | 35% ~12m 48s
|+++++++                               | 36% ~12m 34s
|+++++++                               | 37% ~12m 20s
|+++++++                               | 38% ~12m 06s
|+++++++                               | 39% ~11m 53s
|+++++++                               | 40% ~11m 39s
|+++++++                               | 42% ~11m 25s
|+++++++                               | 43% ~11m 11s
|+++++++                               | 44% ~10m 57s
|+++++++                               | 45% ~10m 44s
|+++++++                               | 46% ~10m 30s
|+++++++                               | 48% ~10m 16s
|+++++++                               | 49% ~10m 02s
|+++++++                               | 50% ~09m 48s
|+++++++                               | 51% ~09m 34s

```

+++++	52%	~09m	20s
+++++	54%	~09m	06s
+++++	55%	~08m	52s
+++++	56%	~08m	38s
+++++	57%	~08m	24s
+++++	58%	~08m	10s
+++++	60%	~07m	56s
+++++	61%	~07m	42s
+++++	62%	~07m	28s
+++++	63%	~07m	14s
+++++	64%	~06m	60s
+++++	65%	~06m	46s
+++++	67%	~06m	32s
+++++	68%	~06m	18s
+++++	69%	~06m	04s
+++++	70%	~05m	50s
+++++	71%	~05m	36s
+++++	73%	~05m	22s
+++++	74%	~05m	08s
+++++	75%	~04m	54s
+++++	76%	~04m	40s
+++++	77%	~04m	26s
+++++	79%	~04m	12s
+++++	80%	~03m	58s
+++++	81%	~03m	44s
+++++	82%	~03m	30s
+++++	83%	~03m	16s
+++++	85%	~03m	02s
+++++	86%	~02m	48s
+++++	87%	~02m	34s
+++++	88%	~02m	20s
+++++	89%	~02m	06s
+++++	90%	~01m	52s
+++++	92%	~01m	38s
+++++	93%	~01m	24s
+++++	94%	~01m	10s
+++++	95%	~56s	
+++++	96%	~42s	
+++++	98%	~28s	
+++++	99%	~14s	
+++++	100%		

elapsed=19m 27s
gamma = 0.8
MMD_1% MMD_5% MMD_10%
1 1 1
g = 10

	0 %
~calculating	
+	1 % ~19m 18s
++	2 % ~19m 10s
++	4 % ~18m 58s
+++	5 % ~18m 45s
+++	6 % ~18m 31s

++++	7 % ~18m 20s
+++++	8 % ~18m 06s
+++++	10% ~17m 53s
+++++	11% ~17m 38s
+++++	12% ~17m 24s
+++++	13% ~17m 12s
+++++	14% ~16m 58s
+++++	15% ~16m 44s
+++++	17% ~16m 29s
+++++	18% ~16m 15s
+++++	19% ~16m 01s
+++++	20% ~15m 47s
+++++	21% ~15m 33s
+++++	23% ~15m 19s
+++++	24% ~15m 05s
+++++	25% ~14m 50s
+++++	26% ~14m 36s
+++++	27% ~14m 22s
+++++	29% ~14m 08s
+++++	30% ~13m 54s
+++++	31% ~13m 39s
+++++	32% ~13m 25s
+++++	33% ~13m 11s
+++++	35% ~12m 57s
+++++	36% ~12m 43s
+++++	37% ~12m 29s
+++++	38% ~12m 15s
+++++	39% ~12m 01s
+++++	40% ~11m 46s
+++++	42% ~11m 32s
+++++	43% ~11m 18s
+++++	44% ~11m 04s
+++++	45% ~10m 50s
+++++	46% ~10m 36s
+++++	48% ~10m 22s
+++++	49% ~10m 08s
+++++	50% ~09m 54s
+++++	51% ~09m 40s
+++++	52% ~09m 26s
+++++	54% ~09m 11s
+++++	55% ~08m 57s
+++++	56% ~08m 43s
+++++	57% ~08m 29s
+++++	58% ~08m 15s
+++++	60% ~08m 01s
+++++	61% ~07m 47s
+++++	62% ~07m 32s
+++++	63% ~07m 18s
+++++	64% ~07m 04s
+++++	65% ~06m 50s
+++++	67% ~06m 36s
+++++	68% ~06m 22s
+++++	69% ~06m 08s
+++++	70% ~05m 54s

```

|+++++| 71% ~05m 39s
|+++++| 73% ~05m 25s
|+++++| 74% ~05m 11s
|+++++| 75% ~04m 57s
|+++++| 76% ~04m 43s
|+++++| 77% ~04m 29s
|+++++| 79% ~04m 14s
|+++++| 80% ~04m 00s
|+++++| 81% ~03m 46s
|+++++| 82% ~03m 32s
|+++++| 83% ~03m 18s
|+++++| 85% ~03m 04s
|+++++| 86% ~02m 50s
|+++++| 87% ~02m 36s
|+++++| 88% ~02m 21s
|+++++| 89% ~02m 07s
|+++++| 90% ~01m 53s
|+++++| 92% ~01m 39s
|+++++| 93% ~01m 25s
|+++++| 94% ~01m 11s
|+++++| 95% ~57s
|+++++| 96% ~42s
|+++++| 98% ~28s
|+++++| 99% ~14s
|+++++| 100%

```

elapsed=19m 39s

gamma = 0.8

MMD_1%	TSLS_1%	MMD_5%	TSLS_5%	MMD_10%	TSLS_10%
1	1	1	1	1	1

```

|~calculating| 0 %
|+| 1 % ~19m 29s
|++| 2 % ~19m 19s
|++| 4 % ~19m 04s
|+++| 5 % ~18m 53s
|+++| 6 % ~18m 38s
|++++| 7 % ~18m 24s
|+++++| 8 % ~18m 10s
|+++++| 10% ~17m 57s
|++++++| 11% ~17m 43s
|++++++| 12% ~17m 29s
|+++++++| 13% ~17m 15s
|+++++++| 14% ~17m 01s
|+++++++| 15% ~16m 46s
|+++++++| 17% ~16m 32s
|+++++++| 18% ~16m 18s
|+++++++| 19% ~16m 04s
|+++++++| 20% ~15m 50s
|+++++++| 21% ~15m 35s
|+++++++| 23% ~15m 22s
|+++++++| 24% ~15m 07s
|+++++++| 25% ~14m 53s
|+++++++| 26% ~14m 39s

```

+++++	27%	~14m	25s
+++++	29%	~14m	11s
+++++	30%	~13m	57s
+++++	31%	~13m	42s
+++++	32%	~13m	28s
+++++	33%	~13m	14s
+++++	35%	~13m	00s
+++++	36%	~12m	46s
+++++	37%	~12m	32s
+++++	38%	~12m	17s
+++++	39%	~12m	03s
+++++	40%	~11m	49s
+++++	42%	~11m	35s
+++++	43%	~11m	21s
+++++	44%	~11m	07s
+++++	45%	~10m	53s
+++++	46%	~10m	38s
+++++	48%	~10m	24s
+++++	49%	~10m	10s
+++++	50%	~09m	56s
+++++	51%	~09m	42s
+++++	52%	~09m	27s
+++++	54%	~09m	13s
+++++	55%	~08m	59s
+++++	56%	~08m	45s
+++++	57%	~08m	31s
+++++	58%	~08m	17s
+++++	60%	~08m	03s
+++++	61%	~07m	48s
+++++	62%	~07m	34s
+++++	63%	~07m	20s
+++++	64%	~07m	06s
+++++	65%	~06m	52s
+++++	67%	~06m	38s
+++++	68%	~06m	23s
+++++	69%	~06m	10s
+++++	70%	~05m	56s
+++++	71%	~05m	42s
+++++	73%	~05m	28s
+++++	74%	~05m	15s
+++++	75%	~05m	01s
+++++	76%	~04m	48s
+++++	77%	~04m	34s
+++++	79%	~04m	20s
+++++	80%	~04m	06s
+++++	81%	~03m	51s
+++++	82%	~03m	37s
+++++	83%	~03m	22s
+++++	85%	~03m	08s
+++++	86%	~02m	53s
+++++	87%	~02m	39s
+++++	88%	~02m	25s
+++++	89%	~02m	10s
+++++	90%	~01m	56s

```

|+++++| 92% ~01m 41s
|+++++| 93% ~01m 27s
|+++++| 94% ~01m 13s
|+++++| 95% ~58s
|+++++| 96% ~44s
|+++++| 98% ~29s
|+++++| 99% ~15s
|+++++| 100%

```

elapsed=20m 10s

MMD_1%	TSL5_1%	MMD_5%	TSL5_5%	MMD_10%	TSL5_10%
1.000	0.041	1.000	0.127	1.000	0.191

g = 11

```

| 0 %
~calculating
|+| 1 % ~21m 40s
|++| 2 % ~21m 16s
|++| 4 % ~20m 29s
|+++| 5 % ~20m 01s
|+++| 6 % ~19m 37s
|++++| 7 % ~19m 47s
|+++++| 8 % ~19m 27s
|+++++| 10% ~19m 05s
|+++++| 11% ~18m 45s
|+++++| 12% ~18m 35s
|+++++| 13% ~18m 19s
|+++++| 14% ~17m 60s
|+++++| 15% ~17m 42s
|+++++| 17% ~17m 24s
|+++++| 18% ~17m 07s
|+++++| 19% ~16m 50s
|+++++| 20% ~16m 34s
|+++++| 21% ~16m 17s
|+++++| 23% ~16m 01s
|+++++| 24% ~15m 45s
|+++++| 25% ~15m 30s
|+++++| 26% ~15m 14s
|+++++| 27% ~14m 59s
|+++++| 29% ~14m 43s
|+++++| 30% ~14m 28s
|+++++| 31% ~14m 12s
|+++++| 32% ~13m 57s
|+++++| 33% ~13m 42s
|+++++| 35% ~13m 27s
|+++++| 36% ~13m 12s
|+++++| 37% ~12m 56s
|+++++| 38% ~12m 41s
|+++++| 39% ~12m 26s
|+++++| 40% ~12m 11s
|+++++| 42% ~11m 56s
|+++++| 43% ~11m 41s
|+++++| 44% ~11m 27s
|+++++| 45% ~11m 12s
|+++++| 46% ~10m 57s

```

+++++	48%	~10m	42s
+++++	49%	~10m	27s
+++++	50%	~10m	13s
+++++	51%	~09m	58s
+++++	52%	~09m	43s
+++++	54%	~09m	29s
+++++	55%	~09m	14s
+++++	56%	~08m	59s
+++++	57%	~08m	45s
+++++	58%	~08m	30s
+++++	60%	~08m	15s
+++++	61%	~08m	01s
+++++	62%	~07m	46s
+++++	63%	~07m	31s
+++++	64%	~07m	17s
+++++	65%	~07m	02s
+++++	67%	~06m	48s
+++++	68%	~06m	33s
+++++	69%	~06m	18s
+++++	70%	~06m	04s
+++++	71%	~05m	49s
+++++	73%	~05m	34s
+++++	74%	~05m	20s
+++++	75%	~05m	05s
+++++	76%	~04m	50s
+++++	77%	~04m	36s
+++++	79%	~04m	21s
+++++	80%	~04m	06s
+++++	81%	~03m	52s
+++++	82%	~03m	37s
+++++	83%	~03m	23s
+++++	85%	~03m	08s
+++++	86%	~02m	54s
+++++	87%	~02m	39s
+++++	88%	~02m	25s
+++++	89%	~02m	10s
+++++	90%	~01m	56s
+++++	92%	~01m	41s
+++++	93%	~01m	27s
+++++	94%	~01m	12s
+++++	95%	~58s	
+++++	96%	~43s	
+++++	98%	~29s	
+++++	99%	~14s	
+++++	100%		

elapsed=20m 04s
 gamma = 1
 MMD_1% MMD_5% MMD_10%
 1 1 1
 g = 11

		0 %
~calculating		1 % ~19m 41s
+		

+++++	67% ~06m 41s
+++++	68% ~06m 27s
+++++	69% ~06m 12s
+++++	70% ~05m 58s
+++++	71% ~05m 44s
+++++	73% ~05m 30s
+++++	74% ~05m 15s
+++++	75% ~05m 01s
+++++	76% ~04m 47s
+++++	77% ~04m 33s
+++++	79% ~04m 19s
+++++	80% ~04m 05s
+++++	81% ~03m 50s
+++++	82% ~03m 36s
+++++	83% ~03m 22s
+++++	85% ~03m 08s
+++++	86% ~02m 54s
+++++	87% ~02m 39s
+++++	88% ~02m 25s
+++++	89% ~02m 11s
+++++	90% ~01m 56s
+++++	92% ~01m 42s
+++++	93% ~01m 27s
+++++	94% ~01m 13s
+++++	95% ~58s
+++++	96% ~44s
+++++	98% ~29s
+++++	99% ~15s
+++++	100%

elapsed=20m 18s

gamma = 1

MMD_1%	TSLS_1%	MMD_5%	TSLS_5%	MMD_10%	TSLS_10%
1	1	1	1	1	1

	0 %
~calculating	
+	1 % ~21m 36s
++	2 % ~21m 43s
++	4 % ~21m 54s
+++	5 % ~21m 04s
+++	6 % ~20m 43s
++++	7 % ~20m 12s
+++++	8 % ~19m 41s
+++++	10% ~19m 15s
+++++	11% ~18m 59s
+++++	12% ~18m 50s
+++++	13% ~18m 40s
+++++	14% ~18m 17s
+++++	15% ~18m 00s
+++++	17% ~17m 41s
+++++	18% ~17m 22s
+++++	19% ~17m 09s
+++++	20% ~16m 50s
+++++	21% ~16m 33s

+++++	23%	~16m	16s
+++++	24%	~16m	01s
+++++	25%	~15m	44s
+++++	26%	~15m	26s
+++++	27%	~15m	10s
+++++	29%	~14m	53s
+++++	30%	~14m	38s
+++++	31%	~14m	21s
+++++	32%	~14m	05s
+++++	33%	~13m	49s
+++++	35%	~13m	34s
+++++	36%	~13m	20s
+++++	37%	~13m	04s
+++++	38%	~12m	51s
+++++	39%	~12m	35s
+++++	40%	~12m	19s
+++++	42%	~12m	03s
+++++	43%	~11m	48s
+++++	44%	~11m	33s
+++++	45%	~11m	19s
+++++	46%	~11m	04s
+++++	48%	~10m	50s
+++++	49%	~10m	35s
+++++	50%	~10m	19s
+++++	51%	~10m	07s
+++++	52%	~09m	52s
+++++	54%	~09m	37s
+++++	55%	~09m	21s
+++++	56%	~09m	06s
+++++	57%	~08m	51s
+++++	58%	~08m	37s
+++++	60%	~08m	22s
+++++	61%	~08m	06s
+++++	62%	~07m	52s
+++++	63%	~07m	37s
+++++	64%	~07m	23s
+++++	65%	~07m	08s
+++++	67%	~06m	53s
+++++	68%	~06m	39s
+++++	69%	~06m	24s
+++++	70%	~06m	09s
+++++	71%	~05m	54s
+++++	73%	~05m	40s
+++++	74%	~05m	25s
+++++	75%	~05m	10s
+++++	76%	~04m	56s
+++++	77%	~04m	41s
+++++	79%	~04m	27s
+++++	80%	~04m	12s
+++++	81%	~03m	57s
+++++	82%	~03m	42s
+++++	83%	~03m	27s
+++++	85%	~03m	12s
+++++	86%	~02m	58s

```

|+++++| 87% ~02m 43s
|+++++| 88% ~02m 28s
|+++++| 89% ~02m 13s
|+++++| 90% ~01m 58s
|+++++| 92% ~01m 44s
|+++++| 93% ~01m 29s
|+++++| 94% ~01m 14s
|+++++| 95% ~59s
|+++++| 96% ~44s
|+++++| 98% ~30s
|+++++| 99% ~15s
|+++++| 100%

```

elapsed=20m 37s

MMD_1%	TSLS_1%	MMD_5%	TSLS_5%	MMD_10%	TSLS_10%
1.000	0.040	1.000	0.130	1.000	0.194

	MMD_1%	MMD_5%	MMD_10%
-1	1.000	1.000	1.000
-0.8	1.000	1.000	1.000
-0.6	1.000	1.000	1.000
-0.4	1.000	1.000	1.000
-0.2	0.797	0.951	0.970
0	0.010	0.052	0.102
0.2	0.807	0.939	0.965
0.4	1.000	1.000	1.000
0.6	1.000	1.000	1.000
0.8	1.000	1.000	1.000
1	1.000	1.000	1.000

	MMD_1%	TSLS_1%	MMD_5%	TSLS_5%	MMD_10%	TSLS_10%
-1	1.000	1.000	1.000	1.000	1.000	1.000
-0.8	1.000	1.000	1.000	1.000	1.000	1.000
-0.6	0.996	1.000	0.998	1.000	0.999	1.000
-0.4	0.806	0.882	0.949	0.965	0.980	0.987
-0.2	0.185	0.201	0.417	0.434	0.547	0.553
0	0.009	0.007	0.044	0.044	0.098	0.094
0.2	0.200	0.215	0.435	0.427	0.542	0.547
0.4	0.827	0.876	0.942	0.953	0.967	0.973
0.6	0.994	0.998	1.000	1.000	1.000	1.000
0.8	1.000	1.000	1.000	1.000	1.000	1.000
1	1.000	1.000	1.000	1.000	1.000	1.000

	MMD_1%	TSLS_1%	MMD_5%	TSLS_5%	MMD_10%	TSLS_10%
-1	1.000	0.049	1.000	0.133	1.000	0.211
-0.8	1.000	0.047	1.000	0.133	1.000	0.206
-0.6	1.000	0.045	1.000	0.127	1.000	0.192
-0.4	1.000	0.038	1.000	0.118	1.000	0.182
-0.2	1.000	0.029	1.000	0.100	1.000	0.159
0	0.012	0.010	0.058	0.058	0.105	0.100
0.2	1.000	0.025	1.000	0.102	1.000	0.152
0.4	1.000	0.034	1.000	0.115	1.000	0.170
0.6	1.000	0.042	1.000	0.123	1.000	0.179
0.8	1.000	0.041	1.000	0.127	1.000	0.191
1	1.000	0.040	1.000	0.130	1.000	0.194

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