

Results Summary from GeneEvolve Simulation 2010-03-04 14:33:12

Basic Parameters:

Working Directory: /temp/GE-TW.Wrkshop

Number of generations: 20

Population size at start: 10000

Number of genes: 7

Vertical Trans. model: vertical transmission from parental phenotypes to offspring

Assort. Mating model: primary phenotypic assortment – correlation b/w mates due to their choosing similar phenotypes AM = 0

Sample Sizes in Dataset:

MZ	DZ	Parents	Sibs	Spouses	Children
2004	2408	4357	2354	770	0

Variance Components – User Input: (Note: U+MZ+TW=E)

A	AA	D	F	S	U	MZ	TW	SEX	AGE	A.by.SEX	A.by.AGE	A.by.S	A.by.U
0.3	0	0.3	0	0.1	0.3	0	0	0	0	0	0	0	0

Time

Simulation started: 2010-03-04 14:31:51

Simulation ended: 2010-03-04 14:33:13

Minutes taken – looping through generations: 1.25

Minutes taken – creating pedigree datasets: 0.22

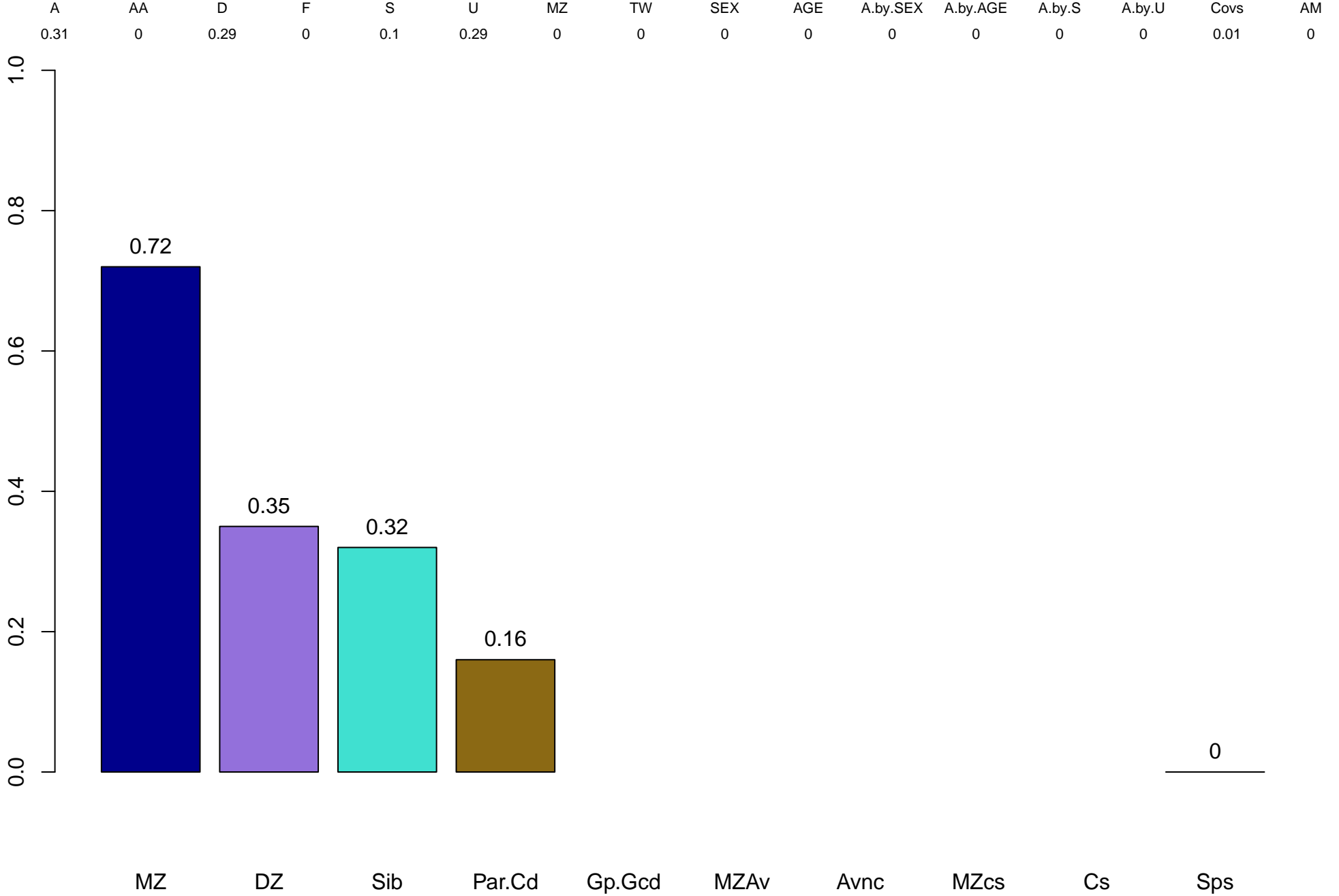
Minutes taken – finding relative correlations: 0.01

Minutes taken – TOTAL: 1.36

Warnings in script:

Correlations between 10 Relative Types

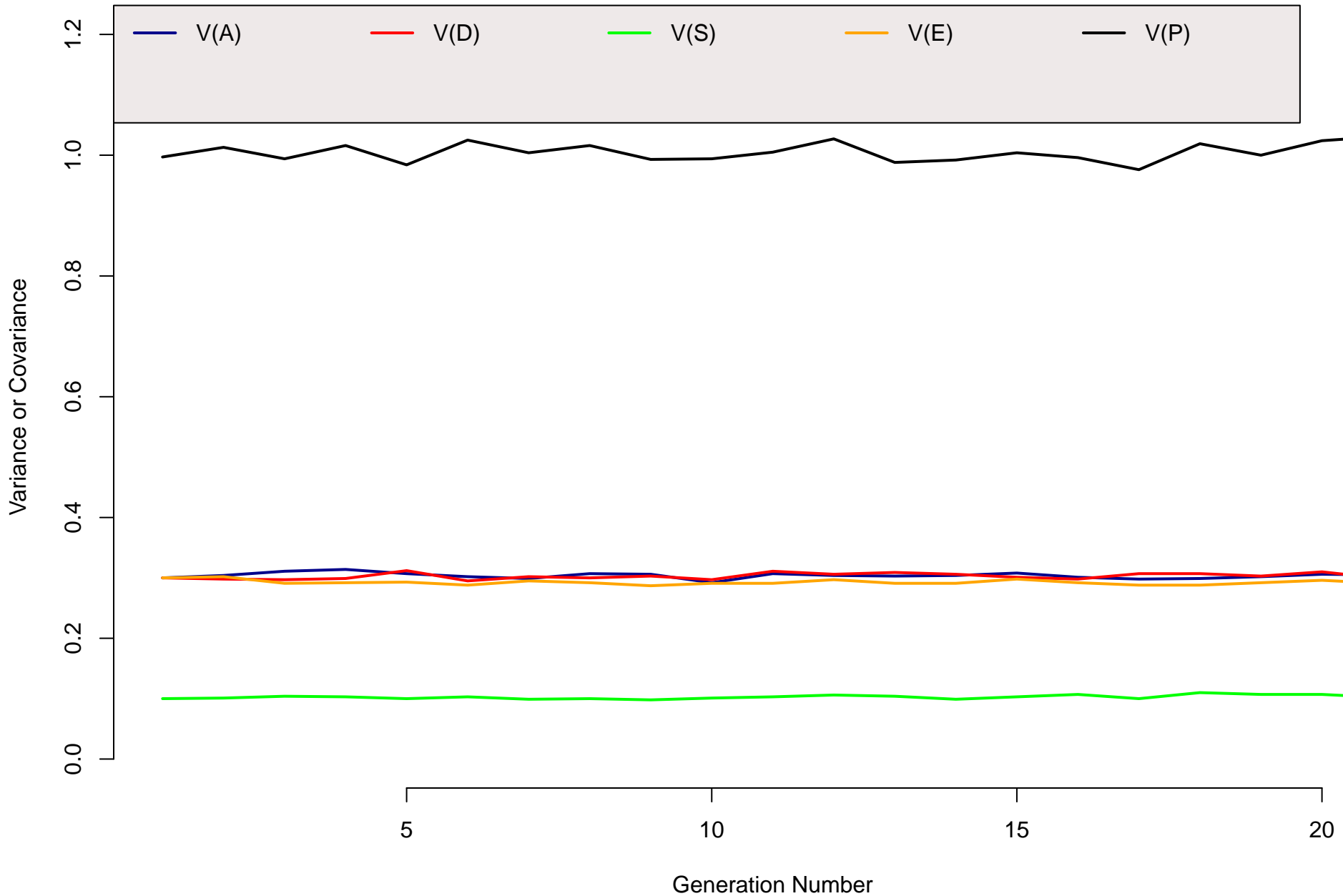
True Standardized Variance Components in Dataset



Change in Variance Across Generations – Includes V(P)

Unstandardized Variance Components

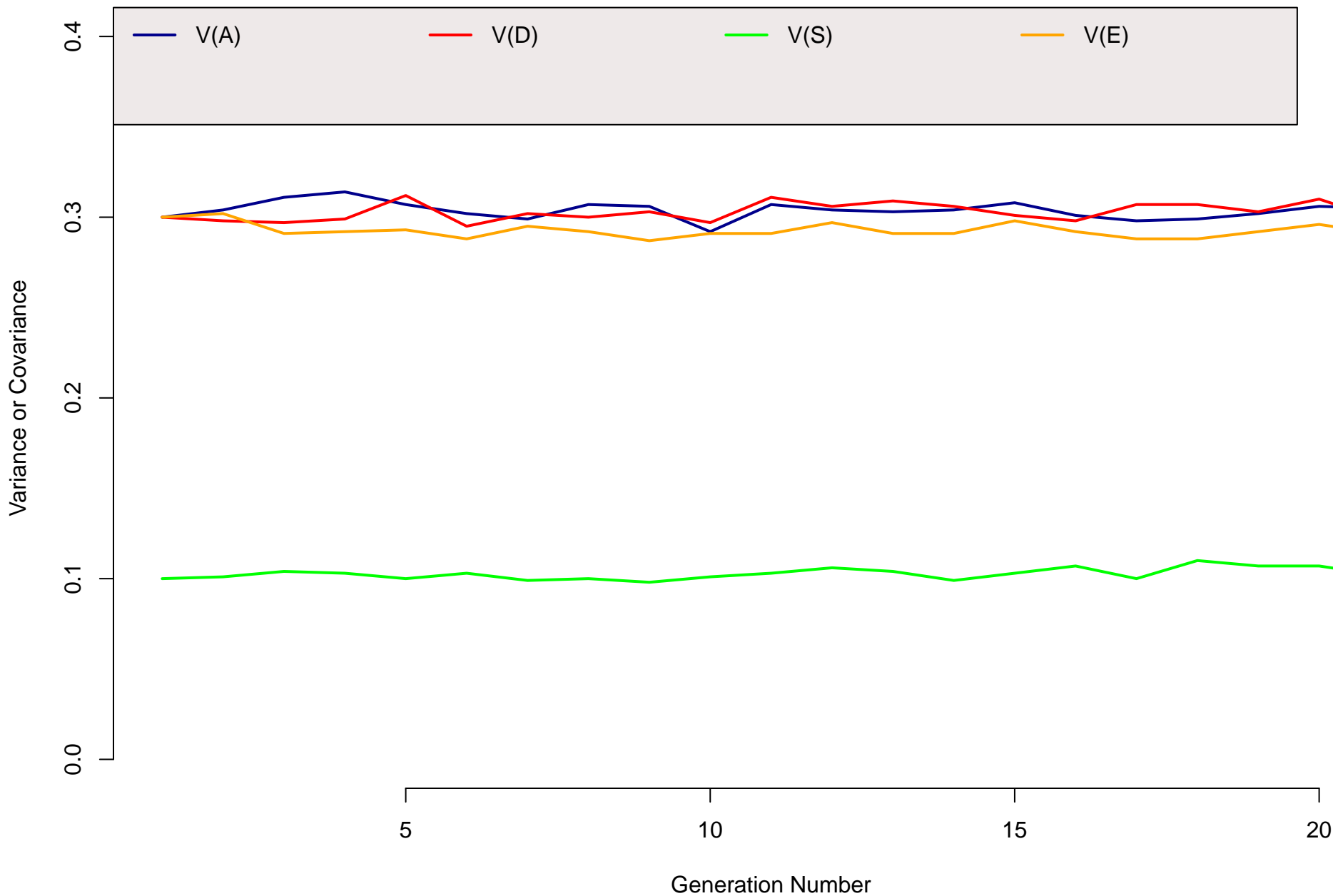
	V(A)	V(AA)	V(D)	V(F)	V(S)	V(E)	V(Sex)	V(Age)	V(AxSex)	V(AxAge)	V(AxS)	V(AxU)	Cov(A,F)	V(P)	r(sps)
Start:	0.3	0	0.3	0	0.1	0.3	0	0	0	0	0	0	0	1	0
End:	0.3	0	0.3	0	0.1	0.29	0	0	0	0	0	0	0	1.03	0
Data:	0.31	0	0.3	0	0.1	0.3	0	0	0	0	0	0	0	1.01	0



Change in Variance Across Generations – Does Not Include V(P)

Unstandardized Variance Components

	V(A)	V(AA)	V(D)	V(F)	V(S)	V(E)	V(Sex)	V(Age)	V(AxSex)	V(AxAge)	V(AxS)	V(AxU)	Cov(A,F)	r(sps)
Start:	0.3	0	0.3	0	0.1	0.3	0	0	0	0	0	0	0	0
End:	0.3	0	0.3	0	0.1	0.29	0	0	0	0	0	0	0	0
Data:	0.31	0	0.3	0	0.1	0.3	0	0	0	0	0	0	0	0



Change in V(A) Across Generations due to Assortative Mating

Unstandardized Variance Components

	V(A)	V(AA)	V(D)	V(F)	V(S)	V(E)	V(Sex)	V(Age)	V(AxSex)	V(AxAge)	V(AxS)	V(AxU)	Cov(A,F)	V(P)	r(sps)
Start:	0.3	0	0.3	0	0.1	0.3	0	0	0	0	0	0	0	1	0
End:	0.3	0	0.3	0	0.1	0.29	0	0	0	0	0	0	0	1.03	0

