Stata Codes

corr laptimetotalsec compound Race Phase Stint

eststo: reg laptimetotalsec i.compound2, robust

eststo: reg laptimetotalsec i.compound2 Race Phase, robust

eststo: reg laptimetotalsec i.compound2 Race Phase Stint, robust

esttab using r1.rtf

eststo clear

eststo: reg laptimetotalsec i.compound3, robust

eststo: reg laptimetotalsec i.compound3 Race Phase, robust

eststo: reg laptimetotalsec i.compound3 Race Phase Stint, robust

esttab using r1-1.rtf, replace

graph twoway (scatter laptimetotalsec Stint if compound==1, mcolor(red)) (scatter laptimetotalsec Stint if compound==2, mcolor(orange) msymbol(square)) (scatter laptimetotalsec Stint if compound==3, mcolor(gray) msymbol(x))

corr Position starting\_compound

reg Position starting\_compound, robust

egen id = group(EventName DriverName)

sort EventName DriverName LapNumber

tsset id LapNumber

gen DeltaTime2= laptimetotalsec - L.laptimetotalsec

corr DeltaTime2 TyreLife

eststo clear

eststo: reg DeltaTime2 TyreLife if !missing(DeltaTime2), robust

esttab using r3.rtf, replace

scatter DeltaTime2 TyreLife, title("Delta Time vs Tire Life") xtitle("Tire Life (Laps Driven)") ytitle("Delta Time (seconds)") legend(off)

corr Position TotalPit

reg Position TotalPit, robust

twoway (lfit Position TotalPit)

corr TotalPit totallaps

corr compound totallaps

reg TotalPit totallaps, robust

ologit compound totallaps, robust

drop if LapNumber==1

corr starting\_compound FinishPosition

reg FinishPosition starting\_compound, robust

twoway (lfit FinishPosition starting\_compound)

corr TotalPit FinishPosition

reg FinishPosition TotalPit, robust

twoway (qfitci FinishPosition TotalPit)

corr laptimetotalsec compound

reg laptimetotalsec compound, robust

twoway (qfitci laptimetotalsec compound)

corr GridPosition Position

reg GridPosition Position, robust

twoway (qfitci GridPosition Position)