



17.0
SE-Standard Edition

Statistics and Data Science

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Szkoła Główna Handlowa w Warszawie

Notes:

1. Unicode is supported; see [help unicode advice](#).
2. Maximum number of variables is set to 5,000 but can be increased;
see [help set maxvar](#).

1 . use "C:\Projects\smwap_project\data\data.dta"

2 . use "C:\Projects\smwap_project\data\data.dta"

3 .

4 . summarize

Variable	Obs	Mean	Std. dev.	Min	Max
ask_price	199	1.000216	.0002939	.999602	1.001647
ask_size	199	72402.42	68153.42	18726.52	420578.2
asset_turn~r	198	.0828578	.0628637	-.0026361	.4081705
bid_price	199	.9997458	.0002246	.9984756	1.00046
bid_size	199	69637.37	67610.68	20330.03	434020.9
cash_divid~o	194	-.1607629	.356061	-1.937008	1.492806
cash_flow~x	197	9.312822	258.788	-325	3597.553
current_ra~o	189	2.75682	5.53516	.323259	54.54767
debt_to_eq~o	195	-21.15193	385.9771	-5274	1002.774
dividends	199	1.343915	2.733959	0	19.05
eps	199	1.912053	7.442496	-10.09	70.62
far_price	199	1.001768	.0147306	.9966582	1.15666
free_cash~e	196	.2300355	9.574806	-129.2406	11.56471
gross_prof~n	198	.4788709	.336098	-2.408377	.9775461
imb_flag	199	-.0168669	.0932345	-.1984579	.3291898
imb_size	199	2633346	4438908	86460.65	3.97e+07
lower_pric~o	199	.7281753	.1478408	.2370457	.9390618
matched_size	199	5.57e+07	1.11e+08	892159.7	1.04e+09
near_price	199	.9996525	.0008246	.9974711	1.002254
operating~s	196	.6587828	10.32551	-138.6026	18.7871
operating~c	185	.4537358	2.563752	-5.444444	32.22857
quick_ratio	186	2.022613	4.102645	.0325283	43.16206
rdi_perc	188	.2395402	.2375936	0	.7731016
ref_price	199	.9999822	.0001862	.9993343	1.000859
return_on~s	199	.0130606	.0404022	-.1866324	.2040207
return_on~y	195	-1.531333	20.42478	-284.8333	4.934702
std_to_me~c	199	.1384046	.0920344	.0341081	.61948
stock_id	0				
target	199	-.0393863	.2109191	-.7658349	.5848858
upper_pric~o	199	1.333908	.2570515	1.096876	2.867102
wap	199	.9999772	.0001795	.999305	1.000776

```
5 .
6 . histogram ask_price
  (bin=14, start=.999602, width=.00014611)

7 .
8 . qnorm ask_price

9 .
10 . histogram asset_turnover
    (bin=14, start=-.00263605, width=.02934333)

11 .
12 . qnorm asset_turnover

13 .
14 . histogram ask_size
    (bin=14, start=18726.517, width=28703.692)

15 .
16 . qnorm ask_size

17 .
18 . histogram bid_price
    (bin=14, start=.9984756, width=.00014177)

19 .
20 . qnorm bid_price

21 .
22 . histogram bid_size
    (bin=14, start=20330.027, width=29549.347)

23 .
24 . qnorm bid_size

25 .
26 . histogram cash_dividends_paid_ratio
    (bin=13, start=-1.9370079, width=.26383182)

27 .
28 . qnorm cash_dividends_paid_ratio

29 .
30 . histogram cash_flow_to_capex
    (bin=14, start=-325, width=280.18237)

31 .
32 . qnorm cash_flow_to_capex

33 .
34 . histogram current_ratio
    (bin=13, start=.32325899, width=4.1711084)

35 .
36 . qnorm current_ratio

37 .
38 . histogram debt_to_equity_ratio
    (bin=13, start=-5274, width=482.82874)
```

```
39 .
40 . qnorm debt_to_equity_ratio

41 .
42 . histogram dividends
    (bin=14, start=0, width=1.3607143)

43 .
44 . qnorm dividends

45 .
46 . histogram eps
    (bin=14, start=-10.09, width=5.765)

47 .
48 . qnorm eps

49 .
50 . histogram far_price
    (bin=14, start=.99665817, width=.01142872)

51 .
52 . qnorm far_price

53 .
54 . histogram free_cash_flow_to_net_income
    (bin=14, start=-129.24062, width=10.057523)

55 .
56 . qnorm free_cash_flow_to_net_income

57 .
58 . histogram gross_profit_margin
    (bin=14, start=-2.4083765, width=.24185162)

59 .
60 . qnorm gross_profit_margin

61 .
62 . histogram imb_flag
    (bin=14, start=-.19845793, width=.03768912)

63 .
64 . qnorm imb_flag

65 .
66 . histogram imb_size
    (bin=14, start=86460.65, width=2826593.4)

67 .
68 . qnorm imb_size

69 .
70 . histogram lower_price_ratio
    (bin=14, start=.23704568, width=.05014401)

71 .
72 . qnorm lower_price_ratio

73 .
```

```
74 . histogram matched_size
    (bin=14, start=892159.74, width=74229210)

75 .
76 . qnorm matched_size

77 .
78 . histogram near_price
    (bin=14, start=.99747112, width=.00034166)

79 .
80 . qnorm near_price

81 .
82 . histogram operating_cash_flow_to_sales
    (bin=14, start=-138.60265, width=11.242125)

83 .
84 . qnorm operating_cash_flow_to_sales

85 .
86 . histogram operating_income_perc
    (bin=13, start=-5.4444444, width=2.8979243)

87 .
88 . qnorm operating_income_perc

89 .
90 . histogram quick_ratio
    (bin=13, start=.03252826, width=3.3176562)

91 .
92 . qnorm quick_ratio

93 .
94 . histogram rdi_perc
    (bin=13, start=0, width=.05946935)

95 .
96 . qnorm rdi_perc

97 .
98 . qnorm ref_price

99 .
100 . histogram ref_price
    (bin=14, start=.99933434, width=.00010894)

101 .
102 . histogram return_on_assets
    (bin=14, start=-.18663239, width=.02790379)

103 .
104 . qnorm return_on_assets

105 .
106 . histogram return_on_equity
    (bin=13, start=-284.83333, width=22.289849)

107 .
```

```

108 . histogram std_to_mean_price_perc
    (bin=14, start=.0341081, width=.04181228)

109 .
110 . qnorm std_to_mean_price_perc

111 .
112 . histogram upper_price_ratio
    (bin=14, start=1.0968759, width=.12644468)

113 .
114 . qnorm upper_price_ratio

115 .
116 . histogram target
    (bin=14, start=-.76583493, width=.09648005)

117 .
118 . qnorm target

119 .
120 . histogram wap
    (bin=14, start=.99930497, width=.00010507)

121 .
122 . tabstat ask_price ask_size asset_turnover bid_price bid_size cash_dividends_paid_ratio cash_flow_to_capex current_
    > matched_size near_price operating_cash_flow_to_sales operating_income_perc quick_ratio rdi_perc ref_price return_c

```

Stats	ask_price	ask_size	asset_turnover	bid_price	bid_size	cash_dividends_paid_ratio	cash_flow_to_capex	current_ratio	debt_to_equity_ratio	dividend_yield	return_on_equity
Mean	1.000216	72402.42	.0828578	.9997458	69637.37	-.1607629	9.312822	2.75682	-21.15193	1.343915	1.91
SD	.0002939	68153.42	.0628637	.0002246	67610.68	.356061	258.788	5.53516	385.9771	2.733959	7.44
CV	.0002939	.9413142	.7586934	.0002246	.9708966	-2.214821	27.78835	2.007806	-18.24784	2.034325	3.8

Stats	return_on_equity	return_on_assets	std_to_mean_price_perc	target	upper_price_ratio	wap
Mean	.0130606	-1.531333	.1384046	-.0393863	1.333908	.9999772
SD	.0404022	20.42478	.0920344	.2109191	.2570515	.0001795
CV	3.093449	-13.33791	.664966	-5.355135	.1927056	.0001795

```

123 .
124 . drop ask_price bid_price far_price near_price ref_price wap

125 .
126 . rename cash_dividends_paid_ratio cdp_ratio

127 .
128 . rename cash_flow_to_capex cftc

129 .
130 . rename debt_to_equity_ratio dte_ratio

131 .
132 . rename free_cash_flow_to_net_income fcftni

133 .
134 . rename gross_profit_margin gpm

```

```

135 .
136 . rename lower_price_ratio lp_ratio

137 .
138 . rename operating_cash_flow_to_sales ocfts

139 .
140 . rename operating_income_perc oip

141 .
142 . rename return_on_assets roa

143 .
144 . rename return_on_equity roe

145 .
146 . rename std_to_mean_price_perc stmp

147 .
148 . rename upper_price_ratio up_ratio

149 .
150 . rename quick_ratio q_ratio

151 .
152 . rename rdi_perc rdip

153 .
154 . summarize

```

Variable	Obs	Mean	Std. dev.	Min	Max
ask_size	199	72402.42	68153.42	18726.52	420578.2
asset_turn~r	198	.0828578	.0628637	-.0026361	.4081705
bid_size	199	69637.37	67610.68	20330.03	434020.9
cdp_ratio	194	-.1607629	.356061	-1.937008	1.492806
cftc	197	9.312822	258.788	-325	3597.553
current_ra~o	189	2.75682	5.53516	.323259	54.54767
dte_ratio	195	-21.15193	385.9771	-5274	1002.774
dividends	199	1.343915	2.733959	0	19.05
eps	199	1.912053	7.442496	-10.09	70.62
fcftni	196	.2300355	9.574806	-129.2406	11.56471
gpm	198	.4788709	.336098	-2.408377	.9775461
imb_flag	199	-.0168669	.0932345	-.1984579	.3291898
imb_size	199	2633346	4438908	86460.65	3.97e+07
lp_ratio	199	.7281753	.1478408	.2370457	.9390618
matched_size	199	5.57e+07	1.11e+08	892159.7	1.04e+09
ocfts	196	.6587828	10.32551	-138.6026	18.7871
oip	185	.4537358	2.563752	-5.444444	32.22857
q_ratio	186	2.022613	4.102645	.0325283	43.16206
rdip	188	.2395402	.2375936	0	.7731016
roa	199	.0130606	.0404022	-.1866324	.2040207
roe	195	-1.531333	20.42478	-284.8333	4.934702
stmp	199	.1384046	.0920344	.0341081	.61948
stock_id	0				
target	199	-.0393863	.2109191	-.7658349	.5848858
up_ratio	199	1.333908	.2570515	1.096876	2.867102

```

155 .
156 . replace asset_turnover = 0 if missing(asset_turnover)
    (1 real change made)

157 .
158 . replace cdp_ratio = 0 if missing(cdp_ratio)
    (5 real changes made)

159 .
160 . replace cftc = 0 if missing(cftc)
    (2 real changes made)

161 .
162 . summarize

```

Variable	Obs	Mean	Std. dev.	Min	Max
ask_size	199	72402.42	68153.42	18726.52	420578.2
asset_turn~r	199	.0824414	.0629792	-.0026361	.4081705
bid_size	199	69637.37	67610.68	20330.03	434020.9
cdp_ratio	199	-.1567236	.3524403	-1.937008	1.492806
cftc	199	9.219225	257.4793	-325	3597.553
current_ra~o	189	2.75682	5.53516	.323259	54.54767
dte_ratio	195	-21.15193	385.9771	-5274	1002.774
dividends	199	1.343915	2.733959	0	19.05
eps	199	1.912053	7.442496	-10.09	70.62
fcftni	196	.2300355	9.574806	-129.2406	11.56471
gpm	198	.4788709	.336098	-2.408377	.9775461
imb_flag	199	-.0168669	.0932345	-.1984579	.3291898
imb_size	199	2633346	4438908	86460.65	3.97e+07
lp_ratio	199	.7281753	.1478408	.2370457	.9390618
matched_size	199	5.57e+07	1.11e+08	892159.7	1.04e+09
ocfts	196	.6587828	10.32551	-138.6026	18.7871
oip	185	.4537358	2.563752	-5.444444	32.22857
q_ratio	186	2.022613	4.102645	.0325283	43.16206
rdip	188	.2395402	.2375936	0	.7731016
roa	199	.0130606	.0404022	-.1866324	.2040207
roe	195	-1.531333	20.42478	-284.8333	4.934702
stmp	199	.1384046	.0920344	.0341081	.61948
stock_id	0				
target	199	-.0393863	.2109191	-.7658349	.5848858
up_ratio	199	1.333908	.2570515	1.096876	2.867102

```

163 .
164 . replace current_ratio = 0 if missing(current_ratio)
    (10 real changes made)

165 .
166 . replace dte_ratio = 0 if missing(dte_ratio)
    (4 real changes made)

167 .
168 . replace fcftni = 0 if missing(fcftni)
    (3 real changes made)

169 .

```

170 . summarize

Variable	Obs	Mean	Std. dev.	Min	Max
ask_size	199	72402.42	68153.42	18726.52	420578.2
asset_turn~r	199	.0824414	.0629792	-.0026361	.4081705
bid_size	199	69637.37	67610.68	20330.03	434020.9
cdp_ratio	199	-.1567236	.3524403	-1.937008	1.492806
cftc	199	9.219225	257.4793	-325	3597.553
current_ra~o	199	2.618287	5.427262	0	54.54767
dte_ratio	199	-20.72677	382.07	-5274	1002.774
dividends	199	1.343915	2.733959	0	19.05
eps	199	1.912053	7.442496	-10.09	70.62
fcftni	199	.2265676	9.502035	-129.2406	11.56471
gpm	198	.4788709	.336098	-2.408377	.9775461
imb_flag	199	-.0168669	.0932345	-.1984579	.3291898
imb_size	199	2633346	4438908	86460.65	3.97e+07
lp_ratio	199	.7281753	.1478408	.2370457	.9390618
matched_size	199	5.57e+07	1.11e+08	892159.7	1.04e+09
ocfts	196	.6587828	10.32551	-138.6026	18.7871
oip	185	.4537358	2.563752	-5.444444	32.22857
q_ratio	186	2.022613	4.102645	.0325283	43.16206
rdip	188	.2395402	.2375936	0	.7731016
roa	199	.0130606	.0404022	-.1866324	.2040207
roe	195	-1.531333	20.42478	-284.8333	4.934702
stmp	199	.1384046	.0920344	.0341081	.61948
stock_id	0				
target	199	-.0393863	.2109191	-.7658349	.5848858
up_ratio	199	1.333908	.2570515	1.096876	2.867102

171 .

172 . replace gpm = 0 if missing(gpm)
(1 real change made)

173 .

174 . replace ocfts = 0 if missing(ocfts)
(3 real changes made)

175 .

176 . replace oip = 0 if missing(oip)
(14 real changes made)

177 .

178 . replace q_ratio = 0 if missing(q_ratio)
(13 real changes made)

179 .

180 . replace rdip = 0 if missing(rdip)
(11 real changes made)

181 .

182 . replace roe = 0 if missing(roe)
(4 real changes made)

183 .

184 . summarize

Variable	Obs	Mean	Std. dev.	Min	Max
ask_size	199	72402.42	68153.42	18726.52	420578.2
asset_turn~r	199	.0824414	.0629792	-.0026361	.4081705
bid_size	199	69637.37	67610.68	20330.03	434020.9
cdp_ratio	199	-.1567236	.3524403	-1.937008	1.492806
cftc	199	9.219225	257.4793	-325	3597.553
current_ra~o	199	2.618287	5.427262	0	54.54767
dte_ratio	199	-20.72677	382.07	-5274	1002.774
dividends	199	1.343915	2.733959	0	19.05
eps	199	1.912053	7.442496	-10.09	70.62
fcftni	199	.2265676	9.502035	-129.2406	11.56471
gpm	199	.4764646	.3369625	-2.408377	.9775461
imb_flag	199	-.0168669	.0932345	-.1984579	.3291898
imb_size	199	2633346	4438908	86460.65	3.97e+07
lp_ratio	199	.7281753	.1478408	.2370457	.9390618
matched_size	199	5.57e+07	1.11e+08	892159.7	1.04e+09
ocfts	199	.6488514	10.2473	-138.6026	18.7871
oip	199	.4218147	2.474189	-5.444444	32.22857
q_ratio	199	1.890482	3.997204	0	43.16206
rdip	199	.2262992	.2373312	0	.7731016
roa	199	.0130606	.0404022	-.1866324	.2040207
roe	199	-1.500552	20.21856	-284.8333	4.934702
stmp	199	.1384046	.0920344	.0341081	.61948
stock_id	0				
target	199	-.0393863	.2109191	-.7658349	.5848858
up_ratio	199	1.333908	.2570515	1.096876	2.867102

185 .

186 . tabstat ask_size asset_turnover bid_size cdp_ratio cftc current_ratio dividends dte_ratio eps fcftni gpm imb_flag

Stats	ask_size	asset_~r	bid_size	cdp_ra~o	cftc	curren~o	divide~s	dte_ra~o	eps	fcftni	gpm	imb_flag
Mean	72402.42	.0824414	69637.37	-.1567236	9.219225	2.618287	1.343915	-20.72677	1.912053	.2265676	.4764646	-.0168669
SD	68153.42	.0629792	67610.68	.3524403	257.4793	5.427262	2.733959	382.07	7.442496	9.502035	.3369625	.0932345
CV	.9413142	.7639268	.9708966	-2.248802	27.92852	2.07283	2.034325	-18.43365	3.89241	41.93907	.9775461	.3291898

187 .

188 . gen ask_size_l = log(ask_size + 0.0001)

189 .

190 . gen bid_size_l = log(bid_size + 0.0001)

191 .

192 . gen dividends_l = log(dividends + 0.0001)

193 .

194 . gen imb_size_l = log(imb_size + 0.0001)

195 .

196 . gen matched_size_l = log(matched_size + 0.0001)

197 .

198 . gen q_ratio_l = log(q_ratio + 0.0001)

```
199 .
200 . tabstat ask_size_l  asset_turnover bid_size_l  cdp_ratio cftc current_ratio dividends_l  dte_ratio eps fcftni gpm
```

Stats	ask_si~l	asset_~r	bid_si~l	cdp_ra~o	cftc	curren~o	divide~l	dte_ra~o	eps	fcftni	gpm
Mean	10.93778	.0824414	10.89016	-.1567236	9.219225	2.618287	-4.716932	-20.72677	1.912053	.2265676	.476
SD	.634274	.0629792	.6398245	.3524403	257.4793	5.427262	4.950701	382.07	7.442496	9.502035	.336
CV	.0579893	.7639268	.0587525	-2.248802	27.92852	2.07283	-1.04956	-18.43365	3.89241	41.93907	.707

```
201 .
202 . histogram q_ratio_l
      (bin=14, start=-9.2103405, width=.92680747)
```

```
203 .
204 . qnorm q_ratio_l
```

```
205 .
206 . histogram dividends_l
      (bin=14, start=-9.2103405, width=.86838663)
```

```
207 .
208 . drop ask_size ask_size_l bid_size bid_size_l imb_size imb_size_l matched_size matched_size_l
```

```
209 .
210 . gen asset_turnover_l = log(asset_turnover + 0.0001)
      (1 missing value generated)
```

```
211 .
212 . tabstat asset_turnover_l, statistics(mean sd cv)
```

Variable	Mean	SD	CV
asset_turn~l	-2.800493	.9589839	-.342434

```
213 .
214 . histogram asset_turnover_l
      (bin=14, start=-9.2103405, width=.59389395)
```

```
215 .
216 . qnorm asset_turnover_l
```

```
217 .
218 . qnorm dividends_l
```

```
219 .
220 . drop asset_turnover
```

```
221 .
222 . gen up_ratio_l = log(up_ratio + 0.0001)
```

```
223 .
224 . summarize
```

Variable	Obs	Mean	Std. dev.	Min	Max
cdp_ratio	199	-.1567236	.3524403	-1.937008	1.492806
cftc	199	9.219225	257.4793	-325	3597.553
current_ra~o	199	2.618287	5.427262	0	54.54767
dte_ratio	199	-20.72677	382.07	-5274	1002.774
dividends	199	1.343915	2.733959	0	19.05
eps	199	1.912053	7.442496	-10.09	70.62
fcftni	199	.2265676	9.502035	-129.2406	11.56471
gpm	199	.4764646	.3369625	-2.408377	.9775461
imb_flag	199	-.0168669	.0932345	-.1984579	.3291898
lp_ratio	199	.7281753	.1478408	.2370457	.9390618
ocfts	199	.6488514	10.2473	-138.6026	18.7871
oip	199	.4218147	2.474189	-5.444444	32.22857
q_ratio	199	1.890482	3.997204	0	43.16206

rdip	199	.2262992	.2373312	0	.7731016
roa	199	.0130606	.0404022	-.1866324	.2040207
roe	199	-1.500552	20.21856	-284.8333	4.934702
stmp	199	.1384046	.0920344	.0341081	.61948
stock_id	0				
target	199	-.0393863	.2109191	-.7658349	.5848858
up_ratio	199	1.333908	.2570515	1.096876	2.867102
dividends_l	199	-4.716932	4.950701	-9.21034	2.947072
q_ratio_l	199	-.3886046	2.488829	-9.21034	3.764964
asset_turn~l	198	-2.800493	.9589839	-9.21034	-.8958253
up_ratio_l	199	.2741796	.1576216	.0925572	1.053337

```
225 .
226 . tabstat up_ratio up_ratio_l, statistics(mean sd cv)
```

Stats	up_ratio	up_ratio_l
Mean	1.333908	.2741796
SD	.2570515	.1576216
CV	.1927056	.5748845

```
227 .
228 . qnorm up_ratio_l

229 .
230 . histogram up_ratio_l
    (bin=14, start=.09255724, width=.06862709)
```

```
231 .
232 . drop up_ratio
```

```
233 .
234 . gen lp_ratio_l = log(lp_ratio + 0.0001)
```

```
235 .
236 . tabstat lp_ratio lp_ratio_l, statistics(mean sd cv)
```

Stats	lp_ratio	lp_ratio_l
Mean	.7281753	-.3431855
SD	.1478408	.2450707
CV	.2030291	-.7141057

```
237 .
238 . qnorm lp_ratio_l

239 .
240 . histogram lp_ratio_l
    (bin=14, start=-1.4390806, width=.09830808)
```

```
241 .
242 . gen stmp_l = log(stmp + 0.0001)
```

```
243 .
244 . tabstat stmp stmp_l, statistics(mean sd cv)
```

Stats	stmp	stmp_l
Mean	.1384046	-2.152201
SD	.0920344	.5780384
CV	.664966	-.2685801

```

245 .
246 . qnorm stmppl

247 .
248 . histogram stmppl
    (bin=14, start=-3.3752928, width=.20689853)

249 .
250 . drop stmppl

251 .
252 . gen gpm_l = log(gpm + 0.0001)
    (4 missing values generated)

253 .
254 . summarize

```

Variable	Obs	Mean	Std. dev.	Min	Max
cdp_ratio	199	-.1567236	.3524403	-1.937008	1.492806
cftc	199	9.219225	257.4793	-325	3597.553
current_ratio	199	2.618287	5.427262	0	54.54767
dte_ratio	199	-20.72677	382.07	-5274	1002.774
dividends	199	1.343915	2.733959	0	19.05
eps	199	1.912053	7.442496	-10.09	70.62
fcftni	199	.2265676	9.502035	-129.2406	11.56471
gpm	199	.4764646	.3369625	-2.408377	.9775461
imb_flag	199	-.0168669	.0932345	-.1984579	.3291898
lp_ratio	199	.7281753	.1478408	.2370457	.9390618
ocfts	199	.6488514	10.2473	-138.6026	18.7871
oip	199	.4218147	2.474189	-5.444444	32.22857
q_ratio	199	1.890482	3.997204	0	43.16206
rdip	199	.2262992	.2373312	0	.7731016
roa	199	.0130606	.0404022	-.1866324	.2040207
roe	199	-1.500552	20.21856	-284.8333	4.934702
stock_id	0				
target	199	-.0393863	.2109191	-.7658349	.5848858
dividends_l	199	-4.716932	4.950701	-9.21034	2.947072
q_ratio_l	199	-.3886046	2.488829	-9.21034	3.764964
asset_turn_l	198	-2.800493	.9589839	-9.21034	-.8958253
up_ratio_l	199	.2741796	.1576216	.0925572	1.053337
lp_ratio_l	199	-.3431855	.2450707	-1.439081	-.0627675
stmppl	199	-2.152201	.5780384	-3.375293	-.4787134
gpm_l	195	-1.35095	2.258674	-9.21034	-.0226075

```

255 .
256 . replace gpm_l = 0 if missing(gpm_l)
    (4 real changes made)

257 .
258 . replace asset_turnover_l = 0 if missing(asset_turnover_l)
    (1 real change made)

259 .
260 . tabstat gpm gpm_l , statistics(mean sd cv)

```

Stats	gpm	gpm_l
Mean	.4764646	-1.323795
SD	.3369625	2.243808
CV	.7072142	-1.694981

```

261 .
262 . qnorm gpm_l

263 .
264 . histogram gpm_l
    (bin=14, start=-9.2103405, width=.65788146)

265 .
266 . drop gpm

267 .
268 . summarize ocfts, detail

```

ocfts				
	Percentiles	Smallest		
1%	-7.789206	-138.6026		
5%	-1.925926	-7.789206		
10%	-.5135763	-6.565657	Obs	199
25%	.5748865	-6.181818	Sum of wgt.	199
50%	1.247591		Mean	.6488514
		Largest	Std. dev.	10.2473
75%	1.832362	10.07379		
90%	2.778761	10.25603	Variance	105.0073
95%	6.022612	11.49412	Skewness	-12.66383
99%	11.49412	18.7871	Kurtosis	173.1697

```

269 .
270 . summarize fcftni, detail

```

fcftni				
	Percentiles	Smallest		
1%	-13.21625	-129.2406		
5%	-2.728545	-13.21625		
10%	-.4635193	-6.711406	Obs	199
25%	.2329532	-6.545455	Sum of wgt.	199
50%	.9271006		Mean	.2265676
		Largest	Std. dev.	9.502035
75%	1.340238	7.668383		
90%	2.36329	8.984139	Variance	90.28866
95%	3.266667	10.18783	Skewness	-12.80136
99%	10.18783	11.56471	Kurtosis	174.9929

```

271 .
272 . summarize dte_ratio, detail

```

dte_ratio				
	Percentiles	Smallest		
1%	-191.6694	-5274		
5%	-17.41589	-191.6694		
10%	-9.793869	-191.6694	Obs	199
25%	-4.211769	-62.15001	Sum of wgt.	199
50%	0		Mean	-20.72677
		Largest	Std. dev.	382.07
75%	3.612613	115.1033		
90%	13.51499	128.0376	Variance	145977.5
95%	41.85817	154.2254	Skewness	-13.06308
99%	154.2254	1002.774	Kurtosis	181.6763

```
273 .
274 . summarize current_ratio, detail
```

current_ratio				
Percentiles		Smallest		
1%	0	0		
5%	0	0		
10%	.6853158	0	Obs	199
25%	1.062619	0	Sum of wgt.	199
50%	1.570608		Mean	2.618287
		Largest	Std. dev.	5.427262
75%	2.59726	13.31207		
90%	4.629812	14.43093	Variance	29.45517
95%	5.692685	51.60811	Skewness	8.248125
99%	51.60811	54.54767	Kurtosis	76.45185

```
275 .
276 . gen current_ratio_l = log(current_ratio + 0.0001)

277 .
278 . tabstat current_ratio current_ratio_l, statistics(mean sd cv)
```

Stats	current_ratio	current_ratio_l
Mean	2.618287	.1059837
SD	5.427262	2.267817
CV	2.07283	21.39779

```
279 .
280 . qnorm current_ratio_l

281 .
282 . histogram current_ratio_l
    (bin=14, start=-9.2103405, width=.94352981)

283 .
284 . drop current_ratio

285 .
286 . summarize cftc, detail
```

cftc				
Percentiles		Smallest		
1%	-102.7993	-325		
5%	-43.05025	-102.7993		
10%	-25	-88.33333	Obs	199
25%	-10.79724	-87.57853	Sum of wgt.	199
50%	-4.043624		Mean	9.219225
		Largest	Std. dev.	257.4793
75%	-1.196217	32.79553		
90%	.555336	88.33456	Variance	66295.6
95%	5.048387	162.8333	Skewness	13.69349
99%	162.8333	3597.553	Kurtosis	191.4962

```
287 .
```

288 . drop lp_ratio

289 .

290 . ssc install winsor
checking **winsor** consistency and verifying not already installed...
all files already exist and are up to date.

291 .

292 . winsor cftc, p(0.02) gen(cftc_w)

293 .

294 . tabstat cftc cftc_w, statistics(mean sd cv)

Stats	cftc	cftc_w
Mean	9.219225	-8.353325
SD	257.4793	16.68043
CV	27.92852	-1.996862

295 .

296 . histogram cftc_w
(bin=14, start=-87.578531, width=8.5981473)

297 .

298 . qnorm cftc_w

299 .

300 . drop cftc

301 .

302 . winsor dte_ratio, p(0.02) gen(dte_ratio_w)

303 .

304 . qnorm dte_ratio_w

305 .

306 . histogram dte_ratio_w
(bin=14, start=-62.150012, width=12.660954)

307 .

308 . tabstat dte_ratio dte_ratio_w, statistics(mean sd cv)

Stats	dte_ratio	dte_ratio_w
Mean	-20.72677	2.04289
SD	382.07	23.05632
CV	-18.43365	11.28613

309 .

310 . drop dte_ratio

311 .

312 . winsor fcftni, p(0.02) gen(fcftni_w)

313 .

314 . qnorm fcftni_w

315 .

```
316 . histogram fcftni_w
      (bin=14, start=-6.5454545, width=1.0152741)
```

```
317 .
318 . tabstat fcftni fcftni_w, statistics(mean sd cv)
```

Stats	fcftni	fcftni_w
Mean	.2265676	.8386299
SD	9.502035	2.024167
CV	41.93907	2.413659

```
319 .
320 . drop fcftni
```

```
321 .
322 . winsor ocfts, p(0.02) gen(ocfts_w)
```

```
323 .
324 . qnorm ocfts_w
```

```
325 .
326 . histogram ocfts_w
      (bin=14, start=-6.1818182, width=1.161115)
```

```
327 .
328 . winsor roe, p(0.03) gen(roe_w)
```

```
329 .
330 . histogram roe_w
      (bin=14, start=-1.4880469, width=.17976034)
```

```
331 .
332 . qnorm roe_w
```

```
333 .
334 . drop roe
```

```
335 .
336 . drop ocfts
```

```
337 .
338 . winsor oip, p(0.02) gen(oip_w)
```

```
339 .
340 . qnorm oip_w
```

```
341 .
342 . histogram oip_w
      (bin=14, start=-1.3292943, width=.25686128)
```

```
343 .
344 . drop oip
```

```
345 .
346 . drop rdip
```

```
347 .
348 . drop dividends
```



```

349 .
350 . drop q_ratio

351 .
352 . winsor eps, p(0.02) gen(eps_w)

353 .
354 . histogram eps_w
    (bin=14, start=-4.92, width=1.5628571)

355 .
356 . qnorm eps_w

357 .
358 . drop eps

359 .
360 . summarize

```

Variable	Obs	Mean	Std. dev.	Min	Max
cdp_ratio	199	-.1567236	.3524403	-1.937008	1.492806
imb_flag	199	-.0168669	.0932345	-.1984579	.3291898
roa	199	.0130606	.0404022	-.1866324	.2040207
stock_id	0				
target	199	-.0393863	.2109191	-.7658349	.5848858
dividends_l	199	-4.716932	4.950701	-9.21034	2.947072
q_ratio_l	199	-.3886046	2.488829	-9.21034	3.764964
asset_turn~l	199	-2.78642	.9769423	-9.21034	0
up_ratio_l	199	.2741796	.1576216	.0925572	1.053337
lp_ratio_l	199	-.3431855	.2450707	-1.439081	-.0627675
stmppl	199	-2.152201	.5780384	-3.375293	-.4787134
gpm_l	199	-1.323795	2.243808	-9.21034	0
current_ra~l	199	.1059837	2.267817	-9.21034	3.999077
cftc_w	199	-8.353325	16.68043	-87.57853	32.79553
dte_ratio_w	199	2.04289	23.05632	-62.15001	115.1033
fcftni_w	199	.8386299	2.024167	-6.545455	7.668383
ocfts_w	199	1.27245	2.321799	-6.181818	10.07379
roe_w	199	-.0171346	.4220323	-1.488047	1.028598
oip_w	199	.2597629	.5254288	-1.329294	2.266764
eps_w	199	1.362254	3.090275	-4.92	16.96

```

361 .
362 . tabstat asset_turnover_l cdp_ratio cftc_w current_ratio_l dividends_l dte_ratio_w eps_w fcftni_w gpm_l imb_flag lp_r

```

Stats	asset~l	cdp_ra~o	cftc_w	curren~l	divide~l	dte_ra~w	eps_w	fcftni_w	gpm_l	imb_flag	lp_r
Mean	-2.78642	-.1567236	-8.353325	.1059837	-4.716932	2.04289	1.362254	.8386299	-1.323795	-.0168669	-.3431855
SD	.9769423	.3524403	16.68043	2.267817	4.950701	23.05632	3.090275	2.024167	2.243808	.0932345	.2450707
CV	-.3506084	-2.248802	-1.996862	21.39779	-1.04956	11.28613	2.268501	2.413659	-1.694981	-5.527673	-.7142857

```

363 .
364 . swilk asset_turnover_l cdp_ratio cftc_w current_ratio_l dividends_l dte_ratio_w eps_w fcftni_w gpm_l imb_flag lp_r

```

Shapiro-Wilk W test for normal data

Variable	Obs	W	V	z	Prob>z
asset_turn~l	199	0.86385	20.223	6.917	0.00000
cdp_ratio	199	0.86903	19.454	6.827	0.00000
cftc_w	199	0.71365	42.533	8.627	0.00000
current_ra~l	199	0.53128	69.621	9.760	0.00000
dividends_l	199	0.82880	25.429	7.443	0.00000
dte_ratio_w	199	0.62408	55.838	9.253	0.00000
eps_w	199	0.71711	42.019	8.599	0.00000
fcftni_w	199	0.78988	31.211	7.915	0.00000
gpm_l	199	0.48608	76.335	9.972	0.00000
imb_flag	199	0.96962	4.512	3.466	0.00026

lp_ratio_l	199	0.81895	26.892	7.572	0.00000
ocfts_w	199	0.79812	29.986	7.823	0.00000
oip_w	199	0.85146	22.063	7.117	0.00000
q_ratio_l	199	0.58392	61.803	9.486	0.00000
roa	199	0.85504	21.532	7.061	0.00000
roe_w	199	0.79284	30.770	7.882	0.00000
stmp_l	199	0.98225	2.636	2.230	0.01288
target	199	0.99045	1.418	0.804	0.21066
up_ratio_l	199	0.78906	31.332	7.924	0.00000

365 .

366 . corr asset_turnover_l cdp_ratio cftc_w current_ratio_l dividends_l dte_ratio_w eps_w fcftni_w gpm_l imb_flag lp_ratio_l
(obs=199)

	asset~l	cdp_ra~o	cftc_w	curren~l	divide~l	dte_ra~w	eps_w	fcftni_w	gpm_l	imb_flag	lp_rat~l	c
asset_turn~l	1.0000											
cdp_ratio	0.1004	1.0000										
cftc_w	0.0043	-0.0544	1.0000									
current_ra~l	0.3507	-0.0113	0.1897	1.0000								
dividends_l	0.0190	-0.5005	-0.0626	-0.2721	1.0000							
dte_ratio_w	-0.1182	0.1152	-0.0416	0.0140	-0.1341	1.0000						
eps_w	-0.0206	-0.0534	-0.1501	-0.2038	0.2566	-0.0811	1.0000					
fcftni_w	-0.0134	-0.1933	0.0511	-0.0630	0.0146	0.0034	-0.0261	1.0000				
gpm_l	0.3806	-0.0568	0.1356	0.7828	-0.1670	-0.0494	-0.2455	-0.0410	1.0000			
imb_flag	-0.0793	0.1828	-0.0315	-0.0115	-0.3187	0.1532	-0.1479	-0.0470	-0.0191	1.0000		
lp_ratio_l	0.0893	-0.2996	-0.0019	-0.0437	0.4559	-0.0347	0.1163	0.0444	0.0227	-0.5024	1.0000	
ocfts_w	-0.0333	-0.3685	0.1198	-0.0720	0.1032	-0.0728	0.0658	0.8615	-0.0238	-0.0550	0.1230	
oip_w	0.1023	-0.1731	-0.1028	0.0801	0.3079	-0.1112	0.1775	0.0509	0.1866	-0.1253	0.2731	
q_ratio_l	0.3070	-0.0064	0.1671	0.8666	-0.2368	-0.0010	-0.1588	-0.0556	0.6592	-0.0255	-0.0293	
roa	0.2140	-0.1252	-0.3498	0.0441	0.2357	-0.0654	0.4966	0.0884	0.0170	-0.2175	0.3397	
roe_w	-0.0207	0.0010	-0.0354	-0.0111	-0.0904	0.4559	-0.0095	0.0662	-0.0431	-0.0047	0.0803	
stmp_l	-0.1292	0.3411	0.0143	0.0381	-0.5065	0.0347	-0.1304	-0.0072	-0.0209	0.4909	-0.8854	
target	-0.0179	0.0038	0.1001	-0.0188	0.1020	-0.0671	0.1078	-0.0832	-0.0871	-0.1721	-0.0372	
up_ratio_l	-0.1780	0.2310	0.0402	0.0483	-0.3964	0.1269	-0.2215	-0.0379	-0.0094	0.5743	-0.7687	

367 .

368 . help asset_turnover_l cdp_ratio cftc_w current_ratio_l dividends_l dte_ratio_w eps_w fcftni_w gpm_l imb_flag lp_ratio_l
Przyjęto domyslny poziom wartosci krytycznej wsp. korelacji
r krytyczne= 0.500

*****KROK 1*****

Zmienna centralna wyznaczona w kroku 1:

up_ratio_l

Zmienne satelitarne odpowiadajace zmiennej up_ratio_l:

imb_flag lp_ratio_l stmp_l

Współczynniki korelacje zmiennej centralnej i zmiennych satelitarnych:

(obs=199)

	up_rat~l	imb_flag	lp_rat~l	stmp_l
up_ratio_l	1.0000			
imb_flag	0.5743	1.0000		
lp_ratio_l	-0.7687	-0.5024	1.0000	
stmp_l	0.8337	0.4909	-0.8854	1.0000

*****KROK 2*****

Zmienna centralna wyznaczona w kroku 2:

current_ratio_1

Zmienne satelitarne odpowiadające zmiennej current_ratio_1:

gpm_1 q_ratio_1

Współczynniki korelacje zmiennej centralnej i zmiennych satelitarnych:
(obs=199)

	current_ratio_1	gpm_1	q_ratio_1
current_ratio_1	1.0000		
gpm_1	0.7828	1.0000	
q_ratio_1	0.8666	0.6592	1.0000

*****KROK 3*****

Zmienna izolowana wyznaczona w kroku 3:

roa

*****KROK 4*****

Zmienna centralna wyznaczona w kroku 4:

ocfts_w

Zmienne satelitarne odpowiadające zmiennej ocfts_w:

fcftni_w

Współczynniki korelacje zmiennej centralnej i zmiennych satelitarnych:
(obs=199)

	ocfts_w	fcftni_w
ocfts_w	1.0000	
fcftni_w	0.8615	1.0000

*****KROK 5*****

Zmienna centralna wyznaczona w kroku 5:

dividends_1

Zmienne satelitarne odpowiadające zmiennej dividends_1:

cdp_ratio

Współczynniki korelacje zmiennej centralnej i zmiennych satelitarnych:
(obs=199)

	dividends_1	cdp_ratio
dividends_1	1.0000	
cdp_ratio	-0.5005	1.0000

*****KROK 6*****

Zmienna izolowana wyznaczona w kroku 6:

dte_ratio_w

*****KROK 7*****

Zmienna izolowana wyznaczona w kroku 7:
oip_w

*****KROK 8*****

Zmienna izolowana wyznaczona w kroku 8:
cftc_w

*****KROK 9*****

Zmienna izolowana wyznaczona w kroku 9:
target

*****KROK 10*****

Zmienna izolowana wyznaczona w kroku 10:
asset_turnover_l

*****KROK 11*****

Zmienna izolowana wyznaczona w kroku 11:
roe_w

*****KROK 12*****

Zmienna izolowana wyznaczona w kroku 12:
eps_w

*****Podsumowanie *****

Metoda Hellwiga wyznacza 12 zmiennych reprezentantów

Zmienne reprezentanty	Typ zmiennej reprezentanta	Zmienne sat. dla zm. centralnych
up_ratio_l	zmienna centralna	imb_flag lp_ratio_l stmpp_l
current_ratio_l	zmienna centralna	gpm_l q_ratio_l
roa	zmienna izolowana	
ocfts_w	zmienna centralna	fcftni_w
dividends_l	zmienna centralna	cdp_ratio
dte_ratio_w	zmienna izolowana	
oip_w	zmienna izolowana	
cftc_w	zmienna izolowana	
target	zmienna izolowana	
asset_turnover_l	zmienna izolowana	
roe_w	zmienna izolowana	
eps_w	zmienna izolowana	

```

369 .
370 . egen at_ls = std(asset_turnover_l)

371 .
372 . egen cdp_ratio_s = std(cdp_ratio)

373 .
374 . egen cftc_ws = std(cftc_w)

375 .
376 . egen current_ratio_ls = std(current_ratio_l)

377 .
378 . egen dividends_ls = std(dividends_l)

379 .
380 . egen dte_ratio_ws = std(dte_ratio_w)

381 .
382 . egen eps_ws = std(eps_w)

383 .
384 . egen fcftni_ws = std(fcftni_w)

385 .
386 . egen gpm_ls = std(gpm_l)

387 .
388 . egen imb_flag_s = std(imb_flag)

389 .
390 . egen lp_ratio_ls = std(lp_ratio_l)

391 .
392 . egen ocfts_ws = std(ocfts_w)

393 .
394 . egen oip_ws = std(oip_w)

395 .
396 . egen q_ratio_ls = std(q_ratio_l)

397 .
398 . egen roa_s = std(roa)

399 .
400 . egen roe_ws = std(roe_w)

401 .
402 . egen stmpp_ls = std(stmpp_l)

403 .
404 . egen target_s = std(target)

405 .
406 . egen up_ratio_ls = std(up_ratio_l)

407 .
408 . drop asset_turnover_l cdp_ratio cftc_w current_ratio_l dividends_l dte_ratio_w eps_w fcftni_w gpm_l imb_flag lp_ra

```

409 .

410 . helw at_ls cdp_ratio_s cftc_ws current_ratio_ls dividends_ls dte_ratio_ws eps_ws fcftni_ws gpm_ls imb_flag
 Przyjęto domyslny poziom wartosci krytycznej wsp. korelacji
 r krytyczne= 0.500

*****KROK 1*****

Zmienna centralna wyznaczona w kroku 1:

up_ratio_ls

Zmienne satelitarne odpowiadajace zmiennej up_ratio_ls:

imb_flag_s lp_ratio_ls stmppl_ls

Współczynniki korelacje zmiennej centralnej i zmiennych satelitarnych:
 (obs=199)

	up_rat~s	imb_fl~s	lp_rat~s	stmppl_ls
up_ratio_ls	1.0000			
imb_flag_s	0.5743	1.0000		
lp_ratio_ls	-0.7687	-0.5024	1.0000	
stmppl_ls	0.8337	0.4909	-0.8854	1.0000

*****KROK 2*****

Zmienna centralna wyznaczona w kroku 2:

current_ratio_ls

Zmienne satelitarne odpowiadajace zmiennej current_ratio_ls:

gpm_ls q_ratio_ls

Współczynniki korelacje zmiennej centralnej i zmiennych satelitarnych:
 (obs=199)

	curren~s	gpm_ls	q_rati~s
current_ra~s	1.0000		
gpm_ls	0.7828	1.0000	
q_ratio_ls	0.8666	0.6592	1.0000

*****KROK 3*****

Zmienna izolowana wyznaczona w kroku 3:

roa_s

*****KROK 4*****

Zmienna centralna wyznaczona w kroku 4:

ocfts_ws

Zmienne satelitarne odpowiadajace zmiennej ocfts_ws:

fcftni_ws

Współczynniki korelacje zmiennej centralnej i zmiennych satelitarnych:
 (obs=199)

	ocfts_ws	fcftni~s
ocfts_ws	1.0000	
fcftni_ws	0.8615	1.0000

*****KROK 5*****

Zmienna centralna wyznaczona w kroku 5:

dividends_ls

Zmienne satelitarne odpowiadające zmiennej dividends_ls:

cdp_ratio_s

Współczynniki korelacji zmiennej centralnej i zmiennych satelitarnych:

(obs=199)

	dividends_ls	cdp_ratio_s
dividends_ls	1.0000	
cdp_ratio_s	-0.5005	1.0000

*****KROK 6*****

Zmienna izolowana wyznaczona w kroku 6:

dte_ratio_ws

*****KROK 7*****

Zmienna izolowana wyznaczona w kroku 7:

oip_ws

*****KROK 8*****

Zmienna izolowana wyznaczona w kroku 8:

cftc_ws

*****KROK 9*****

Zmienna izolowana wyznaczona w kroku 9:

target_s

*****KROK 10*****

Zmienna izolowana wyznaczona w kroku 10:

at_ls

*****KROK 11*****

Zmienna izolowana wyznaczona w kroku 11:

roe_ws

*****KROK 12*****

Zmienna izolowana wyznaczona w kroku 12:

eps_ws

*****Podsumowanie *****

Metoda Hellwiga wyróżniła 12 zmiennych reprezentantów

Zmienne reprezentanty	Typ zmiennej reprezentanta	Zmienne sat. dla zm. centralnych
up_ratio_ls	zmienna centralna	imb_flag_s lp_ratio_ls stmppl_s
current_ratio_ls	zmienna centralna	gpm_ls q_ratio_ls
roa_s	zmienna izolowana	
ocfts_ws	zmienna centralna	fcftni_ws
dividends_ls	zmienna centralna	cdp_ratio_s
dte_ratio_ws	zmienna izolowana	
oip_ws	zmienna izolowana	
cftc_ws	zmienna izolowana	
target_s	zmienna izolowana	
at_ls	zmienna izolowana	
roe_ws	zmienna izolowana	
eps_ws	zmienna izolowana	

411 .

412 . corr at_ls cdp_ratio_s cftc_ws current_ratio_ls dividends_ls dte_ratio_ws eps_ws fcftni_ws gpm_ls imb_flag
(obs=199)

	at_ls	cdp_ra~s	cftc_ws	curren~s	divide~s	dte_ra~s	eps_ws	fcftni~s	gpm_ls	imb_fl~s	lp_rat~s	ocfts_ws
at_ls	1.0000											
cdp_ratio_s	0.1004	1.0000										
cftc_ws	0.0043	-0.0544	1.0000									
current_ra~s	0.3507	-0.0113	0.1897	1.0000								
dividends_ls	0.0190	-0.5005	-0.0626	-0.2721	1.0000							
dte_ratio_ws	-0.1182	0.1152	-0.0416	0.0140	-0.1341	1.0000						
eps_ws	-0.0206	-0.0534	-0.1501	-0.2038	0.2566	-0.0811	1.0000					
fcftni_ws	-0.0134	-0.1933	0.0511	-0.0630	0.0146	0.0034	-0.0261	1.0000				
gpm_ls	0.3806	-0.0568	0.1356	0.7828	-0.1670	-0.0494	-0.2455	-0.0410	1.0000			
imb_flag_s	-0.0793	0.1828	-0.0315	-0.0115	-0.3187	0.1532	-0.1479	-0.0470	-0.0191	1.0000		
lp_ratio_ls	0.0893	-0.2996	-0.0019	-0.0437	0.4559	-0.0347	0.1163	0.0444	0.0227	-0.5024	1.0000	
ocfts_ws	-0.0333	-0.3685	0.1198	-0.0720	0.1032	-0.0728	0.0658	0.8615	-0.0238	-0.0550	0.1230	
oip_ws	0.1023	-0.1731	-0.1028	0.0801	0.3079	-0.1112	0.1775	0.0509	0.1866	-0.1253	0.2731	
q_ratio_ls	0.3070	-0.0064	0.1671	0.8666	-0.2368	-0.0010	-0.1588	-0.0556	0.6592	-0.0255	-0.0293	
roa_s	0.2140	-0.1252	-0.3498	0.0441	0.2357	-0.0654	0.4966	0.0884	0.0170	-0.2175	0.3397	
roe_ws	-0.0207	0.0010	-0.0354	-0.0111	-0.0904	0.4559	-0.0095	0.0662	-0.0431	-0.0047	0.0803	
stmppl_s	-0.1292	0.3411	0.0143	0.0381	-0.5065	0.0347	-0.1304	-0.0072	-0.0209	0.4909	-0.8854	
target_s	-0.0179	0.0038	0.1001	-0.0188	0.1020	-0.0671	0.1078	-0.0832	-0.0871	-0.1721	-0.0372	
up_ratio_ls	-0.1780	0.2310	0.0402	0.0483	-0.3964	0.1269	-0.2215	-0.0379	-0.0094	0.5743	-0.7687	

413 .

414 . tabstat at_ls cdp_ratio_s cftc_ws current_ratio_ls dividends_ls dte_ratio_ws eps_ws fcftni_ws gpm_ls imb_fl

Stats	at_ls	cdp_ra~s	cftc_ws	curren~s	divide~s	dte_ra~s	eps_ws	fcftni~s	gpm_ls	imb_fl~s	lp_r
CV	-5.48e+08	1.08e+08	-1.77e+08	-1.93e+08	-9.82e+07	-1.05e+09	-8.05e+08	-2.62e+08	-1.17e+09	-9.34e+08	7.37

415 .

416 . tabstat at_ls cdp_ratio_s cftc_ws current_ratio_ls dividends_ls dte_ratio_ws eps_ws fcftni_ws gpm_ls imb_fl

Stats	at_ls	cdp_ra~s	cftc_ws	curren~s	divide~s	dte_ra~s	eps_ws	fcftni~s	gpm_ls	imb_fl~s	lp_r
Mean	-1.83e-09	9.27e-09	-5.63e-09	-5.17e-09	-1.02e-08	-9.55e-10	-1.24e-09	-3.81e-09	-8.56e-10	-1.07e-09	1.36
SD	1	1	1	1	1	1	1	1	1	1	1
CV	-5.48e+08	1.08e+08	-1.77e+08	-1.93e+08	-9.82e+07	-1.05e+09	-8.05e+08	-2.62e+08	-1.17e+09	-9.34e+08	7.37


```
417 .  
418 . save "C:\Projects\smwap_project\data\data_cleaned.dta"  
file C:\Projects\smwap_project\data\data_cleaned.dta already exists  
r(602);  
419 .
```