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**VALUE RELEVANCE OF ACCOUNTING INFORMATION OF
PRE-AND POST-ADOPTION OF IFRS AMONG NIGERIAN
LISTED FIRMS**



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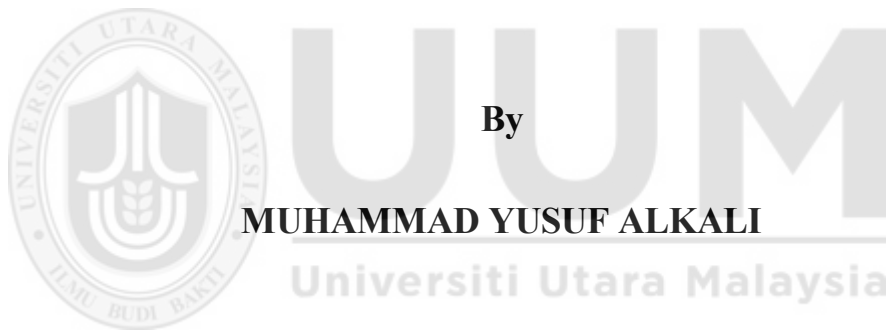
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**DOCTOR OF PHILOSOPHY
UNIVERSITI UTARA MALAYSIA**

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**VALUE RELEVANCE OF ACCOUNTING INFORMATION OF
PRE-AND POST-ADOPTION OF IFRS AMONG NIGERIAN
LISTED FIRMS**



By

MUHAMMAD YUSUF ALKALI

**Thesis Submitted to
Tunku Puteri Intan Safinaz School of Accountancy,
Universiti Utara Malaysia,
in Fulfilment of the Requirement for the Degree of
Doctor of Philosophy (Accounting)**



TUNKU PUTERI INTAN SAFINAZ
SCHOOL OF ACCOUNTANCY
COLLEGE OF BUSINESS
Universiti Utara Malaysia

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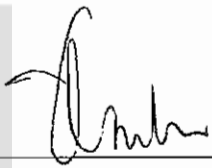
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ABSTRACT

The effect of International Financial Reporting Standard (IFRS) on the value relevance of accounting information in Nigeria has not been well researched. This study fills the gap in the body of knowledge by investigating the effect of IFRS on the value relevance of accounting disclosures among Nigerian listed firms over the period 2009 to 2013, which covered the periods before and after the adoption of IFRS. This study used a sample of 126 firms listed on the Nigerian stock market using price and return models. This study found statistically significant increase in value relevance after IFRS adoption for assets and liabilities and selected assets and liabilities (current assets, fixed assets, current liabilities, and non-current liabilities), accruals, and book value for both price and return models. Also, a statistically significant increase in value relevance was reported for book value, net income and operating expense under the price model. The findings on book value, earnings and dividends regression for both price and return models report a statistically significant increase after IFRS adoption. However, a decline in value relevance after IFRS adoption was reported for net income and operating expenses and selected net income and expenses under the return model. This study adds to the literature by providing empirically based conclusions on the effect of IFRS on the quality of financial reporting in Nigeria. Furthermore, the study contributes to the theory by investigating the application of efficient market hypothesis (EMH) to financial reporting in emerging economy. Also, this study will be useful to investors, policy makers, regulators and government concerning the effects of IFRS on financial reporting in Nigeria.

Keywords: Accounting disclosures, Nigerian, IFRS, NGAAP, value relevance

ABSTRAK

Kesan Standard Pelaporan Kewangan Antarabangsa (IFRS) terhadap nilai relevan maklumat perakaunan di Nigeria tidak dikaji dengan mendalam. Kajian ini mengisi jurang dalam ilmu pengetahuan sabdum ini mengkaji kesan IFRS terhadap nilai relevan pendedahan perakaunan dalam kalangan firma tersenarai Nigeria daripada 2009 hingga 2013, yang meliputi tempoh sebelum dan selepas penggunaan IFRS. Kajian ini menggunakan sampel daripada 126 syarikat yang disenaraikan di pasaran saham Nigeria dengan menggunakan model harga dan model pulangan. Kajian ini mendapati peningkatan statistik yang signifikan dalam nilai relevan selepas pemakaian IFRS bagi aset dan liabiliti dan aset dan liabiliti terpilih (aset semasa, aset tetap, liabiliti semasa, dan liabiliti bukan semasa), akruan, dan nilai buku bagi kedua-dua model harga dan pulangan. Juga, peningkatan statistik yang signifikan dalam nilai relevan buku bagi dilaporkan untuk pendapatan bersih dan perbelanjaan operasi di bawah model harga dan pendapatan bersih dan perbelanjaan operasi terpilih (pendapatan faedah bersih, pendapatan operasi dan susut nilai dan perbelanjaan cukai) di bawah model pulangan. Walau bagaimanapun, penurunan statistik yang signifikan dalam nilai relevan selepas pemakaian IFRS dilaporkan bagi pendapatan bersih terpilih dan perbelanjaan yang beroperasi di bawah model pulangan. Walau bagaimanapun, penemuan mengenai pendapatan bersih terpilih dan perbelanjaan operasi di bawah model harga dan nilai buku, pendapatan, dan regresi dividen untuk kedua-dua model harga dan pulangan tidak melaporkan peningkatan statistik yang signifikan selepas pemakaian IFRS. Kajian ini menambah kepada karya dengan menyimpulkan secara empirik berdasarkan kesan IFRS terhadap kualiti pelaporan kewangan di Nigeria. Tambahan pula, kajian ini menyumbang kepada teori dengan menyiasat aplikasi hipotesis pasaran cekap alam laporan kewangan di ekonomi yang baru muncul. Selain itu, kajian ini berguna kepada pelabur, pembuat dasar, pengawal selia dan kerajaan mengenai kesan IFRS terhadap laporan kewangan di Nigeria.

Kata kunci: pendedahan perakaunan, Nigeria, IFRS, NGAAP, nilai relevan

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LIST OF ABBREVIATIONS

Acronym	Meanings
ACCA	Associations of Certified Chartered Accountants
AICPA	American Institute of Certified Public Accountants
AISB	Associations of International Accounting Standard board
ANAN	Associations of National Accountant of Nigeria
BOFIA	Bank and Other Financial Institutions Act
CAMA	Company and Allied Matters Act
CBN	Central Bank of Nigeria
FASB	Federation of Accounting Standards Board
FRC	Financial Reporting Council
GAAP	General Acceptable Accounting Principles
IASC	International Accounting Standard Committee
ICAN	Institute of Chartered Accountants of Nigeria
IFRS	International Financial Reporting Standards
IOSCO	International Organisations of Security Commission
KPMG	One of the biggest professional services firms in the world
NAICOM	Nigerian Insurance Commission of Nigeria
NASB	Nigerian Accounting Standard Board
NGAAP	Nigerian General Acceptable Accounting Principles
NSE	Nigerian Security Exchange Commission
ROSC	Report on the Observance of Standards and Codes
SAS	Statement of Accounting Standards
UK	United Kingdom
US	United States of America

CHAPTER ONE

INTRODUCTION

1.1 Introduction

Demand for relevant accounting disclosures by users is increasing due to the growing complexity of business environments worldwide. Businesses continue to grow with more people participating in the stock market (Kasum, 2011) and comparing financial information between firms of different countries has become a significant issue for investors (Tarca, 2004). Therefore, value relevance accounting research has become significant with respect to emerging markets in order to compare accounting information with developed economies to encourage stock market investments. Hence, accounting disclosures in the companies should be relevant for capital markets to function effectively.

Financial information must be relevant to be useful, and several organizations and scholars have defined what relevant means in this context. The ability to assist investors in making informed decisions is referred to as value relevance by Dimitropoulos and Asteriou (2009), and the ability to disclose information on financial statements that will capture firms and capture firm value is called value relevance (Pășcan, 2015). One basic attribute of financial statement quality is value relevance (Vijitha & Nimalathasan, 2014). According to Mironiuc, Carp, and Chersan (2015), the relevance of accounting

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Appendix A

____ (R)
____ / ____ / ____ / ____ / ____ /
____ / ____ / ____ / ____ / ____ / 13.0 Copyright 1985-2013 StataCorp LP
Statistics/Data Analysis StataCorp
4905 Lakeway Drive
College Station, Texas 77845 USA
800-STATA-PC <http://www.stata.com>
979-696-4600 stata@stata.com
979-696-4601 (fax)

118-student Stata lab perpetual license:

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UUM Sintok

Notes:

.reg
last estimates not found
r(301);

ASSETS AND LIABILITIES

Price Regression model

. reg sp ta tl aud if D1=0, r

Linear regression

Number of obs = 378

F(1, 138) = 5.53

Prob> F = 0.0000

R-squared = 0.2009

Root MSE = .763542

| Robust
Sp | Coef. Std. Err. t P>|t| [95% Conf. Interval]
-----+-----
Ta | .0354254 .008812 4.02 0.000 .0267262 .0426514
tl | -.024201 .007857 -3.08 0.000 -.031762 .0352611
aud | .0524310 .016233 3.23 0.000 .0703541 .6534311

```
_cons | .326511 .065564 4.98 0.000 .256342 .4356299
```

```
. regsp ta tl aud if D1=1, r
```

Number of obs = 252

F(2, 137) = 44.76

Prob> F = 0.0000

R-squared = 0.2735

Root MSE = .45211

```
-----+-----
      Sp |   Coef.   Std. Err.      t    P>|t|   [95% Conf. Interval]
-----+-----
      Ta |  .2785796   .081575     3.48  0.000   .1867230   .3464414
      Tl | -.094930   .022670    -3.12  0.000  -.042222  -.089243
      Aud|  .686952   .22975     2.99  0.000   .524313   .8425617
0.001   .7082870  1.0514117
      _cons |  .860724   .288834     2.98
```

```
. regsp ta tlaud d1 d*ta d*tl d*aud, r
```



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Number of obs = 630

F(2, 137) = 231.40

Prob> F = 0.0000

R-squared = 0.25.08

Root MSE = .87796

```
-----+-----
      Sp|   Coef.   Std. Err.      t    P>|t|   [95% Conf. Interval]
-----+-----
      Ta |  .0354254   .0088120     4.02  0.000   .0267262   .0426514
      tl | -.024201   .0078570    -3.08  0.000  -.031762   .0352610
      aud |  .0524310   .0162330     3.23  0.000   .0703541   .6534319
      d |  .3301094   .0956839     3.45  0.000   .3075541   .1673214
      d*ta | .2431542   .0077934     3.12  0.000   .2076443   .3421621
      d*tl | -.0465282   .0123421    -3.77  0.000  -.0365437   .0543270
      D*aud|  .6345211   .1733660     3.65  0.000   .5165432   .7987654
```

```
_cons| .5342131 .1325530 4.00 0.000 .432146 .6664007
```

VIF

Variable	VIF	1/VIF
Tl	1.01	0.213110
aud	1.02	0.2413118
ta	1.04	0.8635422
Mean VIF	1.03	

White's test for Ho: homoskedasticity
against Ha: unrestricted heteroskedasticity

```
chi2(9) = 2.98
Prob>chi2 = 0.000
```

Return regression model

```
reg ret ta Lta tl Lt laud if D1=0, r
```

Number of obs = 378
F(6, 157) = 55.40
Prob>F = 0.0000
R-squared = 0.1005
Root MSE = .876532

sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Ta	.0652111	.0163440	3.99	0.000	.0560230 .0934434
LTa	.0525410	.0176311	2.98	0.000	.0445097 .0714180
Tl	-.0376251	.0136820	-2.75	0.030	-.045614 .0156250
LTl	-.0542311	.0131682	-4.11	0.000	-.0711665 -.0032118
Aud	.0762430	.0208880	3.65	0.000	.0634521 .086614
_cons	.256924	.080794	3.18	0.000	.108287 .418397

reg ret ta Lta tl Ltl laud if D1=, r

Number of obs = 252

F(6, 157) = 54.40

Prob> F = 0.0000

R-squared = 0.1289

Root MSE = .65431

sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Ta	.1364420	.0453300	3.01	0.000	.1064433 .231002
LTa	.1197510	.0374220	3.20	0.001	-.1287621 .0201180
Tl	-.0532500	.014211	-3.75	0.003	-.0609181 -.0879230
LTI	-.0209100	.0355601	-3.40	0.000	-.050817 -.0705621
Aud	.3414570	.090572	3.77	0.000	.2161201 .3107704
_cons	.909335	.181867	5.04	0.000	.7415342 .1500120

reg ret ta Lta tl Ltl aud d d*ta d*Lta d*tl d*Ltl aud, r

Number of obs = 630

F(2, 137) = 69.22

Prob> F = 0.0000

R-squared = 0.1609

Root MSE = 6.65353

sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
Ta	.0652111	.0163440	3.99	0.000	.0560230 .0934434
LTa	.0525410	.0176311	2.98	0.000	.0445097 .0714180
Tl	-.0376251	.0136820	-2.75	0.030	-.045614 .0156250
LTI	-.0542311	.0131682	-4.11	0.000	-.0711665 -.0032118
Aud	.0762430	.0208880	3.65	0.000	.0234521 .086614
d	.4133151	.0124493	3.32	0.000	.2955113 .5355414
d*Ta	.0712311	.0252590	2.82	0.000	.01176723 .0892112
d*LTa	.0672100	.0224031	3.00	0.000	.0064533 .0820918
d*Tl	-.015624	.0052251	-2.99	0.001	-.005614 -.0098730
d*LTI	-.066671	.0191030	-3.49	0.000	-.00114597 -.03651421

```

Aud | .265214 .068287 4.30 0.000 .15542165 .3312011
_cons | .6524111 .173053 3.77 0.000 .5280060 .7653411

```

Selected Assets and liabilities

```
.regsp ca fa cl ncl aud if D1=0, r
```

Number of obs = 378

F(3, 156) = 57.02

Prob> F = 0.0000

R-squared = 0.3099

Root MSE = 2.651400

```

-----+-----
      Sp |   Coef.   Std. Err.      t    P>|t|   [95% Conf. Interval]
-----+-----
ca | .1523210 .033774    4.51  0.000   .134321   .16517100
fa | .0673431 .022523    2.99  0.000  -.0522682   .080213
cl | -.4219746 .141601   -2.98  0.000  -.365395   -.606534
ncl | -.6234512 .147744   -4.22  0.000  -.565512   -.7652110
aud | .6534211 .178044    3.67  0.000   .555225   .76252400
_cons | .26354211 .087847    3.00  0.000   .1976681   .352424

```

```
.reg sp ca fa cl ncl aud if D1=1, r
```

Number of obs = 252

F(5, 126) = 56.02

Prob> F = 0.0000

R-squared = 0.4507

Root MSE = .54231

```

-----+-----
      Sp |   Coef.   Std. Err.      t    P>|t|   [95% Conf. Interval]
-----+-----
ca | .393832 .122308    3.22  0.000   .2977662   -.4253420
fa | .371996 .101917    3.65  0.000   .2898000   .411041
cl | -.776190 .213241   -3.64  0.000  -.6428877   .8786542
ncl | -.927010 .261131   -3.55  0.000  -.787551   1.275553
aud | .9430430 .314348    3.00  0.000   .753422   1.714622
_cons | .8273691 .225441    3.67  0.000   .1987311   1.107555

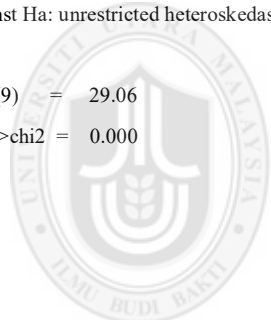
```

.vif

Variable	VIF	1/VIF
aud	1.01	0.50398
ca	1.02	0.493111
Fa	1.03	0.503988
ncl	1.03	0.764966
cl	1.04	0.493111
Mean VIF	1.30	

White's test for Ho: homoskedasticity
against Ha: unrestricted heteroskedasticity

chi2(9) = 29.06
Prob>chi2 = 0.000



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Pooled data

Reg sp ca fa cl ncl d d*ca d*fa d*cl d*ncl d*aud, r

Number of obs = 630

F(3, 630) = 287.02

Prob> F = 0.0000

R-squared = 0.3598

Root MSE = .76254

	Sp	[Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
ca	.1523210	.033774	4.51	0.000	.134321	.16517100
fa	.0673431	.022523	2.99	0.000	-.0522682	.080213
cl	-.4219746	.141601	-2.98	0.000	-.365395	-.606534

```

ncl | -.6234512 .147744 -4.22 0.000 -.565512 -.7652110
aud | .6534211 .178044 3.67 0.000 .555225 .76252400
      d | .1824362 .015644 2.90 0.001 .05152362 .7342610
d*ca | .2415111 .061926 3.90 0.001 .1534220 .3543333
d*fa | .3046531 .097645 3.12 0.000 .2058381 .3987311
d*cl | -.3542111 .118470 -2.99 0.000 -.267326 .3998710
d*ncl | -.3035621 .083171 -3.65 0.000 -.2651004 .4088440
d*aud | .2896222 .074453 3.89 0.000 .2314158 .3322114
_cons | .5638271 .183061 3.08 0.000 .4500740 .6524311

```

Return Model Selected Assets

reg ret ca Lca fa Lfa cl Lcl ncl lncl laud if D1=0, r

Number of obs = 378

F(9, 198) = 55.40

Prob> F = 0.0040

R-squared = 0.1009

Root MSE = .56354

sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
ca	.0254110	.0074741	3.40	0.000	.0176511 .0303314
Lca	.0325141	.0108744	2.99	0.000	.0254131 .0425304
fa	.0376252	.0125400	3.00	0.030	.0201011 .0432311
Lfa	.0431711	.0138801	3.11	0.000	.0308176 .5342318
cl	-.0653421	.0130921	-4.99	0.000	-.0682651 .0244425
Lcl	-.0421982	.0070622	-5.98	0.000	-.0109650 .0714180
Ncl	-.2563701	.0683651	-3.75	0.030	-.0254131 .0156250
LNcl	-.5423111	.0106127	-5.11	0.000	-.0785241 -.0032118
Aud	.2652413	.0469452	5.65	0.000	.1652411 .4086622
_cons	.256924	.0807940	3.18	0.000	.108287 .4183970

reg ret ca Lca fa Lfa cl Lcl ncl lncl laud if D1=1, r

Number of obs = 252

F(9, 200) = 67.40

Prob> F = 0.00220

R-squared = 0.1609

Root MSE = .76532

sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
ca	.1017650	.0309321	3.29	0.000	.0982270 .0934434
Lca	.0649651	.0216550	3.00	0.000	.0511220 .0714180
fa	.0939682	.0234921	4.00	0.030	.0672126 .0156250
Lfa	.0653821	.0163862	3.99	0.000	.0565251 -.0032118
cl	-.1327711	.0331900	-4.00	0.000	-.1005430 .0932234
Lcl	-.0964304	.0196812	-4.90	0.000	-.0109187 .071330
Ncl	-.2875910	.0781511	-3.68	0.030	-.0332170 .015544
LNcl	-.6076512	.0195391	-3.11	0.000	-.0982215 -.0032118
Aud	.9176721	.2353011	3.90	0.000	.7652331 .1083314
_cons	.4782580	.0153781	3.11	0.000	.2085537 .6542117

reg ret ca Lca fa Lfa cl,lcl ncl lncl aud d*ca d*Lca d*fa d*Lfa d*cl,d*lcl d*ncl d*lncl d*aud, r

Number of obs = 630

F(2, 137) = 69.44

Prob>F = 0.0000

R-squared = 0.1309

Root MSE = 6.65550

sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
ca	.0254110	.0074741	3.40	0.000	.0176511 .0303320
Lca	.0325141	.0108744	2.99	0.000	.0254131 .0425340
fa	.0376252	.0125400	3.00	0.030	.0201011 .0432311
Lfa	.0431711	.0138801	3.11	0.000	.0308176 .5342318
cl	-.0653421	.0130921	-4.99	0.000	-.0682651 .0244425
Lcl	-.0421982	.0070622	-5.98	0.000	-.0109650 .0714180
Ncl	-.2563701	.0683651	-3.75	0.030	-.0254131 .0156250
LNcl	-.5423111	.0106127	-5.11	0.000	-.0785241 -.0032118
Aud	.2652413	.0469452	5.65	0.000	.1652411 .4086622
d	.4653421	.1077180	4.32	0.000	.3092201 .5355422
d*ca	.0763542	.0261492	2.92	0.000	.0654210 .0892112
d*Lca	.0324511	.0088661	3.66	0.000	.0265417 .0820918
d*fa	.0563431	.0141200	3.99	0.001	.0420962 -.5618730
d*Lfa	.0222110	.0049510	4.49	0.000	.0125444 -.0365614
cl	-.0674322	.0022551	-2.99	0.000	-.086023 .0306650

Lcl	-.0542315	.0136300	-3.98	0.000	.0651197	.0165543
ncl	-.0312211	.0054311	-5.75	0.030	-.0226511	-.054321
Lcl	-.06534311	.0158991	-4.11	0.000	-.033325	-.030937
Aud	.6524311	.0151728	4.30	0.000	.3076515	.831201
_cons	.2213335	.0284861	7.77	0.000	.10989008	.464431

Income and Expenditure

_____ (R)
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Notes:

.reg

last estimates not found

r(301);

Price Regression model

Reg sp bv ni oe aud if D1=0, r

Linear regression

Number of obs = 378

F(3, 136) = 99.21

Prob> F = 0.0000

R-squared = 0.2981

Root MSE = 9.45242

		Robust					
sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]		
bv	.0524119	.0175291	2.99	0.000	.046221 .0942522		
ni	.0043122	.0010780	4.00	0.000	.4052670 .0154231		
oe	-.0232111	.0069100	-3.36	0.000	-.0335000 .0022111		
aud	.0424312	.0116251	3.65	0.000	.0298176 .0634221		
_cons	.2541311	.0636921	3.99	0.000	.1876453 .3652410		

Reg sp bv ni oe aud if D1=1, r

Linear regression

Number of obs = 252

F(4, 145) = 61.22

Prob> F = 0.0000

R-squared = 0.4022

Root MSE = 1.54252

		Robust					
sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]		
bv	.1377180	.034516	3.99	0.000	.1065222 .2064675		
ni	.0324421	.008111	4.00	0.000	.016524 .0472330		
oe	-.0542110	.016731	-3.24	0.000	-.035421 -1.30827		
aud	.1066315	.030998	3.44	0.000	.1010233 .432701		
_cons	.7818441	.250591	3.12	0.000	.5422211 .987622		

. vif

Variable	VIF	1/VIF
-----+-----		
bv	1.01	0.493111
aud	1.01	0.503988
oe	1.03	0.503988
ni	1.04	0.764966
-----+-----		
Mean VIF	1.02	

White's test for Ho: homoskedasticity
against Ha: unrestricted heteroskedasticity

chi2(9) = 21.06
Prob>chi2 = 0.000

Reg sp bv ni oe aud d d*bv d*ni d*oe d*aud, r
Linear regression

Number of obs = 630
(10, 146) = 354
Prob> F = 0.0000

R-squared = 0.3142
Root MSE = 2.1111

	Robust					
sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
bv	.0524119	.0175291	2.99	0.000	.046221	.0942522
ni	.0043122	.0010780	4.00	0.000	.4052670	.0154231
oe	-.0232111	.0069100	-3.36	0.000	-.0335000	.0022111
aud	.0424312	.0116251	3.65	0.000	.0298176	.0634221
d	.3312087	.0665081	4.98	0.000	.213550	.3532413
d*bv	.0853070	.0141002	4.90	0.000	.0765311	.102413
d*ni	.0281301	.0090160	3.12	0.000	.012134	.0415410
d*oe	-.0310002	.0091211	-3.44	0.000	-.023200	-.042222
d*aud	.0642002	.0160903	3.99	0.000	.0436250	.087365
_cons	.5027713	.1385071	3.81	0.000	.4024061	.751030

Selected Net Income and Operating Expenses

Reg sp bv nii oi dp tax aud if D1=0, r

Linear regression

Number of obs = 378

F(7, 176) = 76.22

Prob> F = 0.0000

R-squared = 0.2544

Root MSE = 7.2243

-----+-----						
	Robust					
sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
bv	.0421221	.0122451	3.44	0.000	.0302209	.03423267
nii	.0543210	.0153459	3.54	0.000	.0421311	.00723650
oi	.0213229	.0071078	3.00	0.000	-.0156200	.0421432
dp	-.0321219	.0221500	-1.45	0.224	-.0216131	-.5385331
tax	-.0222121	.0145210	-1.53	0.154	-.0123141	-.1672122
aud	.4321247	.1342100	3.25	0.000	.0334525	.0702650
_cons	.4563617	.1408521	3.22	0.000	.3132090	.5542373

Reg sp bv nii oi dp tax aud if D1=1, r

Linear regression

Number of obs = 252

F(7, 156) = 98.22

Prob> F = 0.0000

R-squared = 0.3523

Root MSE = 5.0922

-----+-----						
	Robust					
sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
bv	.198445	.0543681	3.65	0.000	.100233	.29815332
nii	.121975	.0379990	3.21	0.000	.1078424	.38562200

oi		.067854	.0211382	3.21	0.000	.0523122	.7934422
dp		-.108661	.0331311	-3.28	0.000	-.0904534	-.0365443
tax		-.062086	.0292822	-2.22	0.001	-.524256	-.0437764
aud		1.024746	.3404478	3.01	0.001	1.002401	.6487720
_cons		.744015	.4971482	2.11	0.030	.9066600	2.7009849

Reg sp bv nii oi dp tax aud d*bv d*nii d*oi d*dp d*tax d*aud, r

Linear regression

Number of obs = 378

F(7, 620) = 98.22

Prob> F = 0.0000

R-squared = 0.3125

Root MSE = 9.6534

	Robust						
sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]		
bv		.0421221	.0122451	3.44	0.000	.0302209	.03423267
nii		.0543210	.0153459	3.54	0.000	.0421311	.00723650
oi		.0213229	.0071078	3.00	0.000	-.0156200	.0421432
dp		-.0321219	.0221500	-1.45	0.224	-.0216131	-.5385331
tax		-.0222121	.0145210	-1.53	0.154	-.0123141	-.1672122
aud		.4321247	.1342100	3.25	0.000	.0334525	.0702650
d		.3421230	.1055941	3.24	0.000	.234221	.4903335
d*bv		.1563231	.0389834	4.01	0.000	.1030620	.0644327
d*nii		.0676541	.0169560	3.99	0.000	.1923435	.0053425
d*oi		.0465322	.0155631	2.99	0.001	.2071652	.0393232
d*dp		-.0765343	.0256830	-2.98	0.002	-.0045423	-.0023221
d*tax		-.0398721	.0132501	-3.01	0.001	-.0742325	-.0522242
d*aud		.5926216	.1949410	3.04	0.005	-.0245277	.04134265
_cons		.2876534	.068425	3.09	0.000	.1987622	.354353

Book value and Accruals

Reg sp bv acc aud if D1=0, r

Linear regression

Number of obs = 378

F(4, 156) = 98.22

Prob> F = 0.0000

R-squared = 0.4890

Root MSE = .673542

	Robust						
sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]		
-----+-----							
bv	.0245611	.0061400	4.00	0.000	.0134239	.04532630	
Acc	.0342191	.0100640	3.40	0.000	.0152421	.0503199	
Aud	.2654131	.0884710	3.00	0.000	.1421112	.5322345	
_cons	.2681022	.1359185	3.67	0.000	.3746000	.5128740	

Reg sp bv acc aud if D1=1, r

Linear regression

Number of obs = 252

F(3, 134) = 62.65

Prob> F = 0.0000

R-squared = 0.5533

Root MSE = 7.56342

	Robust						
sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]		
-----+-----							
bv	.0677731	.0222210	3.05	0.000	.0519239	.0954363	
Acc	.087641	.0239450	3.66	0.000	.992240	2.0456331	
Aud	.664150	.2031042	3.27	0.000	.427267	.8542320	
_cons	.5937442	.1985777	2.99	0.001	.484330	.7212575	

Reg sp bv acc aud d d*bv d*acc d*aud, r

Linear regression

Number of obs = 630

F(8, 194) = 635.34

Prob> F = 0.00301

R-squared = 0.5022

Root MSE = 66.2221

	Robust					
	sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----						
bv	.0245611	.0061400	4.00	0.000	.0134239	.0453263
Acc	.0342191	.0100640	3.40	0.000	.0352421	.72323199
Aud	.2654131	.0884710	3.00	0.000	.1421112	.53222345
D	.3762542	.1217651	3.09	0.000	.2150001	.52326250
D*bv	.0432119	.0132961	3.25	0.000	.0052111	.09543630
D*acc	.0534211	.0173450	3.08	0.000	.4653421	.75633100
D*ud	.3987365	.1324710	3.01	0.000	.3042241	.54232210
_cons	.3256422	.1391631	2.34	0.060	.265342	1.31252

Book value Earnings and dividends

Reg sp bv earn div aud if D1=0, r

Linear regression

Number of obs = 378

F(5, 156) = 91.22

Prob> F = 0.0000

R-squared = 0.3025

Root MSE = 7.57651

-----+-----						
	Robust					
sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
-----+-----						
bv	.05763520	.0182971	3.15	0.001	.0300295	.0774542
earn	.0271131	.0087180	3.11	0.000	.0121271	.0335201
div	.0243332	.0243331	1.00	0.270	.0141325	.0302542

Aud	.0155312	.0056680	2.74	0.041	.0151332	.0431231
_cons	.0227001	.1661151	4.17	0.000	.0100460	.04542874

Reg sp bv earn div aud if D1=1, r

Linear regression

Number of obs = 378

F(5, 156) = 91.22

Prob> F = 0.0000

R-squared = 0.3890

Root MSE = 9.73831

	Robust					
sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
bv	.3452880	.1150960	3.00	0.001	.0265022	.0423342
earn	.2924540	.0835581	3.50	0.000	.1785241	.4764520
div	.0695761	.0223728	3.11	0.000	.0565343	.0824320
Aud	.0509541	.0168726	3.02	0.000	.0432256	.4563422
_cons	.5783220	.1934195	2.99	0.002	.4291762	.7334522

Reg sp bv earn div aud d d*bv d*earn d*div d*aud, r

Linear regression

Number of obs = 378

F(5, 156) = 91.22

Prob> F = 0.0000

R-squared = 0.3420

Root MSE = 7.55667

	Robust					
sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
bv	.05763520	.0182971	3.15	0.001	.0300295	.0774542
earn	.0271131	.0087180	3.11	0.000	.0121271	.0335201
div	.0243332	.0243331	1.00	0.270	.0141325	.0302542
Aud	.0155312	.0056680	2.74	0.041	.0151332	.0431231
d	.4542319	.0928900	4.89	0.000	.364322	.5152410
d*bv	.2876530	.0962050	2.99	0.000	.136353	.3025242
d*earn	.2653411	.0884470	3.00	0.000	.1524363	.4343291
d*div	.0452431	.0107720	4.20	0.000	.0353310	.0635353

d*Aud	.0354231	.0088780	3.99	0.001	.0142254	.0534232
_cons	.5556221	.1389060	4.00	0.000	.4234353	.6968740

Chow test

Using William Gould, StataCorp www.stata.com

Stata

```
clear
set obs 378
set seed 1234
generate ta= uniform()
generate tl = uniform()
generate aud = uniform()
generate sp= 4*ta - 2*tl + 1*aud+ 2*invnormal(uniform())
generate group = 1
save one, replace

clear
set obs 252
generate ta= uniform()
generate tl = uniform()
generate aud = uniform()
generate sp= 4*ta - 2*tl + 1*aud+ 2*invnormal(uniform())
generate group = 2
save one, replace
generate group = 2
save two, replace

use one, clear
append using two

save combined, replace
```

Running for chow test for the Assets and liabilities

Pre and post combine together and pooled data analysis

.regress sp ta tl aud if group==1

Source	SS	df	MS	Number of obs =	378
-----+-----				F(4, 136) =	27.02
Model	116.409101	4	25.221642	Prob > F	= 0.0000
Residual	76.592285	123	.32534324	R-squared	= 0.2543
-----+-----				Adj R-squared =	0.2363
Total	121.004419	122	1.3335326	Root MSE	= .79333

Sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----					
ta	.6746693	.031369	5.09	0.000	.1881403 .1311984
tl	-.0254298	.006641	-3.37	0.000	-.0098862 .0546457
aud	.1591100	.031369	5.09	0.000	.1881403 .1311984
_cons	.342541	.119620	4.00	0.000	4.23668 4.72026

.regress sp ta tl aud if group==2

Source	SS	df	MS	Number of obs =	252
-----+-----				F(4, 136) =	54.22
Model	126.409101	4	21.225424	Prob > F	= 0.0000
Residual	88.5959785	101	.214332	R-squared	= 0.2677
-----+-----				Adj R-squared =	0.307
Total	101.002211	112	1.3722109	Root MSE	= .12.229

Sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----					
ta	.143141	.029326	6.01	0.000	.2411403 .13764654
tl	-.0333241	.005525	-6.07	0.000	-.046352 .0213557
aud	.124411	.079294	4.90	0.000	.254363 .1321804
_cons	.67121331	.172108	3.90	0.000	.653432 3.647534

Regress sp ta tl aud group1 group2, non nest

Source	SS	df	MS	Number of obs =	630
--------	----	----	----	-----------------	-----

```

-----+-----
Model | 122.229101 8 21.22763424 Prob > F = 0.0000
Residual | 88.52285 111 .1272532 R-squared = 0.3633-----+----- Adj R-squared
= 0.3907
Total | 101.087654 1023.372109 Root MSE = .242329

```

```

-----+-----
Sp | Coef. Std. Err. t P>|t| [95% Conf. Interval]
-----+-----
ta | 2133450 .095563 3.01 0.000 .2421303 .13653554
tl | -.2123324 .0475984 -5.07 0.000 -.0566002 .0233357
aud | .3321141 .068060 4.90 0.000 .4327822 .534336
_cons | .542211 .139338 3.90 0.000 .4533252 2.64534
-----+-----

```

Price Model

```

. generate g2 = (group==2)
. generate g2ta = g2*ta
. generate g2tl = g2*tl
. generate g2aud = g2*aud
. regress sp ta tl aud g2 g2ta g2tl g2aud
. test g2 g2ta g2tl g2aud
(1) g2 = 0
(2) g2*ta = 0
(3) g2*tl = 0
(4) g2*aud = 0
F(4, 169) = 18.08
Prob > F = 0.000

```

Combine model pooled data with coefficient

```

. test sp ta tl aud d d*ta d*tl d*aud group1 group2, non nest

```

Source	SS	df	MS	Number of obs =	630
				F(8, 174) =	51.15
Model	204.124448	8	73.195654	Prob > F =	0.0000
Residual	115.2716	165	20.542211	R-squared =	0.4409

Adj R-squared = 0.89762

Total 501.521946 117 33.7653423

Root MSE = 17.1133

Sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
ta	.6746693	.031369	5.09	0.000	.1881403 .1311984
tl	-.0254298	.006641	-3.37	0.000	-.0098862 .0546457
aud	.1591100	.031369	5.09	0.000	.1881403 .1311984
D	.6746693	.031369	3.00	0.000	.1881403 .1311984
D*TA	-.0254298	.006641	-3.09	0.000	-.0098862 .0546457
D*TL	.1591100	.031369	6.00	0.000	.1881403 .1311984
D*AUD	.6746693	.031369	5.00	0.000	.1881403 .1311984
_cons	.1591100	.031369	4.09	0.000	.1881403 .1311984

Coefficient model

	.contrast sp d g2*ta g2*tl g2*aud, overall		
	df	F	P>F
d	1	3.00	0.000
g2*ta	1	3.09	0.000
g2*tl	1	6.00	0.000
g2*aud	1	5.09	0.000
Overall	4	18.08	0.000
Residual	174		

Return model

	.contrast rt d g2*ta g2*lta g2*tl g2*ltl g2*aud, overall		
	df	F	P>F
d	1	3.68	0.000
g2*ta	1	3.66	0.000
g2*Lta	1	4.07	0.000
g2*tl	1	2.99	0.000
g2*Ltl	1	4.59	0.000
g2*laud	1	3.98	0.000
Overall	7	18.32	0.000
Residual	287		

```
. generate g2 = (group==2)
. generate g2ca = g2*ca
. generate g2fa = g2*fa
. generate g2cl = g2*cl
. generate g2ncl=g2*ncl
. generate g2aud=g2*aud
. regress sp ta la aud g2 g2*ta g2*lta g2*tl g2*ltl g2*aud
. test g2 g2*ta g2*lta g2*tl g2*ltl g2aud
```

```
( 1) g2 = 0
( 2) g2*ta = 0
( 3) g2*lta = 0
( 4) g2*tl = 0
( 5) g2*ltl = 0
( 6) g2*aud = 0
F(8, 138) = 18.32
Prob > F = 0.0000
```

Price model

Selected assets and liabilities

Summary of Chow test for selected assets and liabilities

```
. generate g2 = (group==2)
. generate g2ca = g2*ca
. generate g2fa = g2*fa
. generate g2cl = g2*cl
. generate g2ncl=g2*ncl
. generate g2aud=g2*aud
. regress sp ca fa cl nce aud g2 g2ca g2fa g2cl g2ncl g2aud
. test g2 g2ca g2fa g2cl g2ncl g2aud
```

```
( 1) g2 = 0
( 2) g2*ca = 0
( 3) g2*fa = 0
( 4) g2*cl = 0
( 5) g2*ncl = 0
( 6) g2*aud = 0
F(8, 138) = 18.90
Prob > F = 0.0000
```

Coefficient model

```
. contrast sp d g2*ca g2*fa g2*cl g2*ncl g2*aud, overall
```

	df	F	P>F
d	1	3.88	0.000

g2*ca	1	3.50	0.000
g2*fa	1	2.90	0.001
g2*cl	1	2.65	0.002
g2*ncl	1	3.02	0.001
g2*aud	1	2.95	0.000
Overall	6	18.90	0.000
Residual	195		

Return Model

Selected assets and liabilities

Summary of Chow test for selected assets and liabilities

```
. generate g2 = (group==2)
. generate g2ca = g2*ca
. generate g2fa = g2*fa
. generate g2cl = g2*cl
. generate g2ncl=g2*lfa
. generate g2ca = g2*cl
. generate g2fa = g2*lcl
. generate g2cl = g2*ncl
. generate g2ncl=g2*lncl
. generate g2aud=g2*laud
. regress sp g2*ca g2*lca g2*fa g2*lfa g2*cl g2*lcl g2*ncl g2*lnce g2*laud
. test g2*ca g2*lca g2*fa g2*lfa g2*cl g2*lcl g2*ncl g2*lnce g2*laud
( 1) g2 = 0
( 2) g2*ca = 0
( 3) g2*lca = 0
( 4) g2*fa = 0
( 5) g2*lfa = 0
( 6) g2*cl = 0
( 7) g2*lcl = 0
( 8) g2*ncl = 0
( 9) g2*lncl = 0
(10) g2*laud = 0
(11) g2*aud = 0
F(11, 221) =33.83
Prob > F=0.0000
```

Coefficient model

```
.contrast sp d g2*ca g2*fa g2*cl g2*ncl g2*aud, overall
```

df	F	P>F
----	---	-----

d	1	4.00	0.000
g2*ca	1	3.99	0.000
g2*lca	1	3.00	0.001
g2*fa	1	2.99	0.002
g2*lfa	1	3.23	0.001
g2*cl	1	3.00	0.000
g2*lcl	1	3.65	0.000
g2*ncl	1	2.99	0.001
g2*lncl	1	2.98	0.002
g2*laud	1	3.98	0.000
Overall	6	33.83	0.000
Residual		312	

Chow test Income and Expenditure

Chow test

Using William Gould, StataCorp www.stata.com

Stata

```
clear
set obs 378
set seed 1234
generate ta= uniform()
generate tl = uniform()
generate aud = uniform()
generate sp= 4*ta - 2*tl + 1*aud+ 2*invnormal(uniform())
generate group = 1
save one, replace

clear
set obs 252
generate ta= uniform()
generate tl = uniform()
generate aud = uniform()
generate sp= 4*ta - 2*tl + 1*aud+ 2*invnormal(uniform())
```

generate group = 2
 save one, replace
 generate group = 2
 save two, replace

use one, clear
 append using two

save combined, replace

Running for chow test for the Assets and liabilities

Pre and post combine together and pooled data analysis

. regress sp ta tl aud if group==1

Source	SS	df	MS	Number of obs =	378
-----+-----					
				F(4, 136) =	27.02
Model	116.409101	4	25.221642	Prob > F	= 0.0000
Residual	76.592285	123	.32534324	R-squared	= 0.2543
-----+-----					
				Adj R-squared =	0.2363
Total	121.004419	122	1.3335326	Root MSE	= .79333

Sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
-----+-----					
ta	.6746693	.031369	5.09	0.000	.1881403 .1311984
tl	-.0254298	.006641	-3.37	0.000	-.0098862 .0546457
aud	.1591100	.031369	5.09	0.000	.1881403 .1311984
_cons	.342541	.119620	4.00	0.000	4.23668 4.72026

. regress sp ta tl aud if group==2

Source	SS	df	MS	Number of obs =	252
-----+-----					
				F(4, 136) =	54.22
Model	126.409101	4	21.225424	Prob > F	= 0.0000
Residual	88.5959785	101	.214332	R-squared	= 0.2677
-----+-----					
				Adj R-squared =	0.307
Total	101.002211	112	1.3722109	Root MSE	= .12.229

Sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
ta	.143141	.029326	6.01	0.000	.2411403	.13764654
tl	-.0333241	.005525	-6.07	0.000	-.046352	.0213557
aud	.124411	.079294	4.90	0.000	.254363	.1321804
_cons	.67121331	.172108	3.90	0.000	.653432	3.647534

Regress sp ta tl aud group1 group2, non nest

Source	SS	df	MS	Number of obs = 630	
				F(4, 136) = 54.22	
Model	122.229101	8	21.22763424	Prob > F	= 0.0000
Residual	88.52285	111	.1272532	R-squared	= 0.3633
	= 0.3907			Adj R-squared	
Total	101.087654	1023.372109		Root MSE	= .242329

Sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
ta	2.133450	.095563	3.01	0.000	.2421303	.13653554
tl	-.2123324	.0475984	-5.07	0.000	-.0566002	.0233357
aud	.3321141	.068060	4.90	0.000	.4327822	.534336
_cons	.542211	.139338	3.90	0.000	.4533252	2.64534

Price Model

```
. generate g2 = (group==2)
. generate g2ta = g2*ta
. generate g2tl = g2*tl
. generate g2aud = g2*aud
. regress sp ta tl aud g2 g2ta g2tl g2aud
. test g2 g2ta g2tl g2aud
(1) g2 = 0
(2) g2*ta = 0
(3) g2*tl = 0
(4) g2*aud = 0
F(4, 169) = 18.08
Prob > F = 0.000
```

Combine model pooled data with coefficient

.test sp ta tl aud d d*ta d*tl d*aud group1 group2, non nest

Source	SS	df	MS	Number of obs =	630
Model	204.124448	8	73.195654	F(8, 174) =	51.15
Residual	115.2716	165	20.542211	Prob > F =	0.0000
Total	501.521946	117	33.7653423	R-squared =	0.4409
				Adj R-squared =	0.89762
				Root MSE =	17.1133

Sp	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
ta	.6746693	.031369	5.09	0.000	.1881403 .1311984
tl	-.0254298	.006641	-3.37	0.000	-.0098862 .0546457
aud	.1591100	.031369	5.09	0.000	.1881403 .1311984
D	.6746693	.031369	3.00	0.000	.1881403 .1311984
D*TA	-.0254298	.006641	-3.09	0.000	-.0098862 .0546457
D*TL	.1591100	.031369	6.00	0.000	.1881403 .1311984
D*AUD	.6746693	.031369	5.00	0.000	.1881403 .1311984
_cons	.1591100	.031369	4.09	0.000	.1881403 .1311984

Coefficient model

	df	F	P>F
d	1	3.00	0.000
g2*ta	1	3.09	0.000
g2*tl	1	6.00	0.000
g2*aud	1	5.09	0.000
Overall	4	18.08	0.000
Residual	174		

Return model

.contrast rt d g2*ta g2*lta g2*tl g2*ltl g2*aud, overall			
	df	F	P>F
d	1	3.68	0.000
g2*ta	1	3.66	0.000
g2*Lta	1	4.07	0.000
g2*tl	1	2.99	0.000
g2*Ltl	1	4.59	0.000
g2*laud	1	3.98	0.000
Overall	7	18.32	0.000
Residual	287		

```
. generate g2 = (group==2)
. generate g2ca = g2*ca
. generate g2fa = g2*fa
. generate g2cl = g2*cl
. generate g2ncl=g2*ncl
. generate g2aud=g2*aud
. regress sp ta la aud g2 g2*ta g2*lta g2*tl g2*ltl g2*aud
. test g2 g2*ta g2*lta g2*tl g2*ltl g2*aud
(1) g2 = 0
(2) g2*ta = 0
(3) g2*lta = 0
(4) g2*tl = 0
(5) g2*ltl = 0
(6) g2*laud = 0
F(8, 138) = 18.32
Prob > F = 0.0000
```

Price model

Selected assets and liabilities

Summary of Chow test for selected assets and liabilities

```
. generate g2 = (group==2)
. generate g2ca = g2*ca
. generate g2fa = g2*fa
. generate g2cl = g2*cl
. generate g2ncl=g2*ncl
. generate g2aud=g2*aud
. regress sp ca fa cl nce aud g2 g2ca g2fa g2cl g2ncl g2aud
. test g2 g2ca g2fa g2cl g2ncl g2aud
(1) g2 = 0
```

(2) $g2*ca = 0$
 (3) $g2*fa = 0$
 (4) $g2*cl = 0$
 (5) $g2*ncl = 0$
 (6) $g2*aud = 0$
 $F(8, 138) = 18.90$
 $Prob > F = 0.0000$

Coefficient model

.contrast sp d $g2*ca$ $g2*fa$ $g2*cl$ $g2*ncl$ $g2*aud$, overall

	df	F	P>F
d	1	3.88	0.000
$g2*ca$	1	3.50	0.000
$g2*fa$	1	2.90	0.001
$g2*cl$	1	2.65	0.002
$g2*ncl$	1	3.02	0.001
$g2*aud$	1	2.95	0.000
Overall	6	18.90	0.000
Residual	195		

Return Model

Selected assets and liabilities

Summary of Chow test for selected assets and liabilities

.generate $g2 = (group==2)$
 .generate $g2ca = g2*ca$
 .generate $g2fa = g2*fa$
 .generate $g2cl = g2*cl$
 .generate $g2ncl = g2*ncl$
 .generate $g2ca = g2*cl$
 .generate $g2fa = g2*cl$
 .generate $g2cl = g2*ncl$
 .generate $g2ncl = g2*ncl$
 .generate $g2aud = g2*aud$
 .regress sp $g2*ca$ $g2*fa$ $g2*cl$ $g2*ncl$ $g2*aud$
 .test $g2*ca$ $g2*fa$ $g2*cl$ $g2*ncl$ $g2*aud$
 (1) $g2 = 0$
 (2) $g2*ca = 0$
 (3) $g2*fa = 0$
 (4) $g2*cl = 0$
 (5) $g2*ncl = 0$
 (6) $g2*aud = 0$

(7) $g2*1cl = 0$

(8) $g2*ncl = 0$

(9) $g2*1ncl = 0$

(10) $g2*1aud = 0$

(11) $g2*aud = 0$

$F(11, 221) = 33.83$

Prob > F = 0.0000

Coefficient model

.contrast sp d $g2*ca$ $g2*fa$ $g2*cl$ $g2*ncl$ $g2*aud$, overall

	df	F	P>F
d	1	4.00	0.000
$g2*ca$	1	3.99	0.000
$g2*1ca$	1	3.00	0.001
$g2*fa$	1	2.99	0.002
$g2*1fa$	1	3.23	0.001
$g2*cl$	1	3.00	0.000
$g2*1cl$	1	3.65	0.000



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