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BOOK-TAX CONFORMITY FOR CORPORATE INCOME:
AN INTRODUCTION TO THE ISSUES

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ABSTRACT

This paper discusses the issues surrounding the proposals to conform financial accounting income and taxable income. The two incomes diverged in the late 1990s with financial accounting income becoming increasingly greater than taxable income through the year 2000. While the cause of this divergence is not known for certain, many suspect that it is the result of earnings management for financial accounting and/or the tax sheltering of corporate income. Our paper outlines the potential costs and benefits of one of the proposed "fixes" to the divergence: the conforming of the two incomes into one measure. We review relevant research that sheds light on the issues surrounding conformity both in the U.S. as well as evidence from other countries that have more closely aligned book and taxable incomes. The extant empirical literature reveals that it is unlikely that conforming the incomes will reduce the amount of tax sheltering by corporations and that having only one measure of income will result in a loss of information to the capital markets.

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1. INTRODUCTION

This paper discusses the issues surrounding the proposal to conform financial accounting (book) income and taxable income. We review recent literature that sheds light on this proposal in order to inform the policy debate regarding what to do about the current divergence between financial accounting and taxable incomes. The expanding divergence between book and taxable incomes has attracted much attention and analysis in recent years (e.g., Plesko 2002; Desai 2003; Mills et al. 2002). The real concern with diverging book and tax incomes is not that they are different per se, but that the difference may be caused by some misleading or even fraudulent activity on the part of firms in reporting book income, taxable income, or both.¹ While there is little debate that the incomes are diverging, the cause of the divergence and whether and how to fix it are very much open questions. One proposal to fix the system is to conform the financial accounting (book) and taxable income numbers. For example, Yin (2001) in response to the Treasury's white paper entitled "The Problem with Corporate Tax Shelters" claims that one way to solve the "problem" is to tax public corporations on their income reported for financial reporting purposes, as adjusted by tax rules authorizing specific deviations from that base (p. 26). Further, Desai (2004) argues that the dual reporting of corporate income has led to a degradation of corporate profit reporting and "...conforming the measurement of book and tax profits could provide firms with some automatic incentives to reduce tax avoidance and to be less aggressive in reporting profits to capital markets" (p. 3). Our paper reviews much of the literature in this area, provides an overview of book-tax differences and their disclosure, discusses the proposed

¹ Mills (1998) finds that the larger the level of book-tax differences, the greater the Internal Revenue Service (IRS) audit proposals and adjustments. Lev and Nissim (2004) and Hanlon (2005) both provide evidence that large book-tax differences are associated with lower quality of financial accounting earnings. Thus, there is evidence that book-tax differences can indicate both aggressive tax behavior and aggressive financial accounting reporting.

“solutions” to the “problem,” and most specifically discusses the issues surrounding conforming financial accounting income and taxable income to one measure.

There have been three proposed solutions regarding the increasing divergence between the two incomes put forth by regulators, academics, and the press.² The first is to require firms to disclose their entire tax return so that investors can compare the two sets of reports and from this comparison arrive at a more accurate measure of performance for the firm. The second suggestion is to have firms disclose only certain items from the tax return such as the amount of taxable income and tax liability, because currently the financial statements do not include this information.³ The third proposal is to conform the two incomes; that is eliminate the book-tax differences that exist under the current system. Prior literature has discussed the first two proposals in detail. Lenter, Shackelford, and Slemrod (2003; hereafter LSS) argue that the case for disclosure of the entire tax return is unappealing because it could cause companies to dilute the information on the tax return, hampering tax enforcement. In addition, disclosing the entire return may reveal proprietary information and otherwise private business information to the firm’s competitors.⁴ LSS argue that the case for limited disclosure of tax return information (such as bottom line taxable income or a more detailed reconciliation between book and taxable

² There is also a fourth possible solution and that is to increase the disclosures required under Financial Accounting Standard 109 *Accounting for Income Taxes* to provide better information about the book-tax differences of the firm and the firm’s actual tax liability. We do not discuss this solution further but the interested reader is referred to Hanlon (2003) for more details.

³ One way to accomplish such disclosure would be to require public disclosure of the new Schedule M-3. The M-3 is a more detailed (than the Schedule M-1) reconciliation of book to taxable income effective for any taxable year ending on or after December 31, 2004 and must be filed by any corporation required to file Form 1120, U.S. Corporation Income Tax Return, that reports on Form 1120 at the end of the corporation’s taxable year total assets that equal or exceed \$10 million. The new M-3 is designed to increase transparency for IRS agents and make tax reporting requirements more uniform. Currently, this new schedule is confidential and not publicly available and thus will not help financial statement users.

⁴ LSS state that the proprietary information that may be disclosed through tax returns includes the nature, sources, and character of a company’s revenues and expenses, details about a company’s legal structures, licensing, and leasing revenues by legal entity and jurisdiction, advertising and other selling expenses, and the nature and location of a company’s manufacturing costs by functional type (page 823).

incomes) is more compelling because it could contribute to the transparency of the tax system. Our paper focuses mainly on the third proposal – the conforming of book and taxable incomes.⁵

In sum, there are both potential benefits and potential costs of conforming the two measures of income. For example, in terms of potential benefits, it is likely that corporations would incur less compliance cost in terms of reporting because they would report (essentially) the same measure to both the Internal Revenue Service (IRS) and the Securities and Exchange Commission (SEC). Further, many argue that the temptation on the part of executives to mislead/lie for either financial accounting or taxable income purposes would be significantly reduced or even eliminated. Executives would be less inclined to overstate financial accounting income because this would result in higher taxes, and they would not want to understate taxable income because this would result in lower income reported to creditors and shareholders. Finally, conforming the incomes would likely simplify a currently very complex reporting environment where both investors and the Treasury are left to decipher how a firm can report stunning profits to investors yet show losses on their tax return.⁶

However, there are many potential costs to be considered as well. An important one, which is often overlooked, is the loss of information to the capital markets. Clearly, however, this depends on how the conforming of the incomes is accomplished. For example, would financial accounting income be conformed to tax or taxable income conformed to financial accounting? We believe that the latter is unlikely because Congress would then be leaving the Treasury's revenue determination in the hands of the private sector Financial Accounting Standard's Board (FASB). As further support of this claim we point to the recent controversy

⁵ We recognize that various proposals to overhaul the income tax system entirely (e.g., a consumption tax) would render the proposal of conforming book and tax incomes meaningless because with a consumption tax there will no longer be a taxable income with which to compare financial accounting earnings.

⁶ Regarding these cases Representative Lloyd Doggett stated that “when investors hear of only rosy earnings while at tax time Uncle Sam only hears of regrets and red ink, something is very wrong” (Weisman 2002, p A01).

over stock option expensing (which we discuss further below); Congress involved itself in this issue with no tax revenue implications indicating it is unlikely to relinquish control over items concerning tax revenues to another body. Another alternative is just to reduce significantly the number of book-tax differences allowed (Yin 2001). Consistent with the work by George Stigler (1971) which provides that regulators are often captured by the regulated enterprises, promoting the interests of the firms instead of the common good, we conjecture that with this proposal it is likely that additional differences would soon be added to please every special interest group and constituency and, as a result, we would soon be back to a system with innumerable adjustments. Thus, if the two incomes were conformed, the conformed number reported would be (or approach) taxable income as defined under the current system. If that is the case, then the current financial accounting measure of performance would not be available to the markets and recent research finds that a loss of value-relevant information would occur.

In addition, there is no assurance provided by current research that conforming the incomes would in fact reduce the amount of tax sheltering. If all participants know that the income reported is that on which the firm's tax is computed, it will no longer be relied upon as heavily as a performance measure.⁷ As a result, management will not want to overstate the amount and will only want to understate it in order to reduce the tax liability and maximize after-tax cash flows to increase shareholder value.⁸ Thus, while likely preventing financial accounting

⁷ Firms could voluntarily continue to disclose information about their earnings performance similar to current financial accounting income. While this is true, the information that would be disclosed would not be computed under a common set of rules and the firms could voluntarily disclose different information (or pieces of information) to different parties at different times. This type of reporting will invariably result in less reliable and comparable information and to an information disadvantage to certain groups of investors (most likely small investors). The disadvantaged investors will either a) leave the market or b) demand a higher return for the now higher risk of investing. This will in turn make equity more expensive because of a greater amount of information asymmetry and lower amount of liquidity.

⁸ We discuss evidence from international settings with regard to this point below as well as U.S. evidence in Guenther et al. (1997).

overstatement on the part of management, tax sheltering would still occur and a minimized income number will not convey the desired information regarding performance to shareholders.

We develop these ideas as follows. Section 2 describes how taxable income and financial accounting income are currently computed, the differences between the two incomes, and how these differences are disclosed. Section 3 discusses the recent divergence between book and taxable income. Section 4 provides an overview of the proposed “solutions” for correcting this divergence. Section 5 covers in detail the issues specifically surrounding one proposed solution—conforming book and taxable incomes to one measure—including evidence from international settings, evidence on how the market uses the two income measures, and some further thoughts on a system of partial conformity. Section 6 concludes.

2. BOOK AND TAXABLE INCOME: HOW THEY ARE CALCULATED AND HOW THEY ARE DIFFERENT

Management calculates corporate income for two external purposes each year. The first is for financial reporting purposes under Generally Accepted Accounting Principles (GAAP) and the second is done in accordance with the Internal Revenue Code (IRC) to determine the corporation’s tax liabilities. Financial accounting income is intended to provide outside stakeholders (e.g., investors, creditors, regulators, etc.) with information about firm performance. In contrast, the objectives of the IRC are to provide a framework for efficient and equitable determination of tax liabilities and the subsequent collection of revenue, and to provide incentives for firms to engage in, or not engage in, particular activities, and to reward particular constituencies (Scholes, Wolfson, Erickson, Maydew, and Shevlin 2002; Manzon and Plesko 2002).

Despite both book and taxable income being prepared on an accrual basis, differences between book and taxable incomes can be large.⁹ Some differences, known as permanent differences, are items included in one measure of income but never included in the other.¹⁰ The simplest example is municipal bond interest that is included in financial accounting income but is excluded from taxable income.

Other book-tax differences are temporary. Temporary differences arise because of differing requirements for the timing of recognition of income and expense items. For book purposes, revenue is recognized when earned and expense recognition is either matched against the related revenue or recorded in the accounting period in which the expense is incurred. For tax purposes, however, firms must “clearly reflect income.”¹¹ Revenue is generally recorded when cash is received and expenses may not be deducted until more stringent conditions are satisfied, reducing the level of discretion in the calculation of taxable income.

The simplest example of a temporary difference is depreciation. For tax purposes, a firm depreciates its assets using the MACRS (modified accelerated cost recovery system) method which allows the write-off of an asset at a much faster rate than the most commonly used method for financial accounting, straight-line depreciation. Another example is bad debt expense. Under GAAP firms are required to estimate the proportion of sales that will ultimately become uncollectible and expense this amount in the same period as the recognition (inclusion) of the sale in revenue, thus reducing profits and the associated asset account to estimated net realizable value. For tax purposes, however, firms are required to use the specific write-off method and

⁹ For a very readable and extensive discussion on the differences between taxable income and book income see Knott and Rosenfeld (2003).

¹⁰ Technically, the term “permanent difference” is not used in Statement of Financial Accounting Standard No. 109 (SFAS 109). However, permanent-type differences continue to impact the calculation of current tax expense under SFAS 109 (KPMG 1992).

¹¹ IRC Section 446 (b).

thus cannot deduct the estimated expense associated with the earned revenue but must wait until a specific receivable is known to be uncollectible before it can be written off (deducted).

Similarly, for financial accounting purposes firms must estimate the cost associated with warranties and record this expense in the same period as the associated sale (thus, matching the expense with the revenue). However, for tax purposes estimates of future expenses cannot be deducted. The firm must wait until the warranty claims are fulfilled before the deduction can be taken.

Book-tax differences are disclosed to some extent on both the tax return and in the firm's financial statements. A firm must reconcile its financial accounting income to its taxable income on the schedule M-1 of its tax return. However, because the M-1 was not thought to provide sufficient detail for the IRS to clearly tell why taxable income differed from financial reporting income, a new schedule M-3 is required for corporate tax returns filed for any taxable year ending on or after December 31, 2004.¹² Neither the M-1 nor the M-3 is publicly available.¹³

Firms are also required to disclose their material book-tax differences in the notes to their financial statements. The temporary book-tax differences are disclosed through the listing of the changes in material deferred tax assets and deferred tax liabilities and the permanent differences are disclosed in the reconciliation of the statutory tax rate to the firm's effective (average) tax rate. While a detailed discussion of these disclosures is beyond the scope of this paper, the overall value of the disclosures in the financial statements is extremely limited because only the very large differences are listed, the descriptions are generally vague, and the description for the same item can vary substantially across firms. In addition, it is important to note that the tax

¹² See Mills and Plesko (2003) and Boynton and Mills (2004) for more information surrounding the new M-3. In addition, any book-tax difference greater than \$10 million must be separately disclosed to the IRS under Treasury regulation §1.6011-4T.

¹³ There have been some proposals that include making the M-3 public. The M-3 data will be unavailable to the public (except possibly for a few specific agreements with a handful of academic researchers).

provision on a firm's income statement does not equal the taxes paid by the firm. Further, the actual tax liability of the firm is not publicly disclosed, it can be estimated but with the potential for measurement error (see Hanlon 2003 for more information on the problems with the tax note contained in financial statement disclosures).¹⁴

In summary, there are clear reasons why book and taxable incomes are different; most notably, because the incomes are not intended to serve the same purpose. Financial accounting income is intended to provide information regarding firm performance to the marketplace while taxable income is prescribed by the government to meet budgetary needs and to provide incentives (disincentives) for desired (undesired) behavior. There are many items which can cause taxable income to differ from book income, some differences are permanent in nature and some are temporary, meaning the effect of the difference will reverse in the future. Finally, because of limited disclosures, investors and the IRS both have difficulty determining *why* taxable income is different than book income.

3. THE DIVERGENCE BETWEEN BOOK AND TAXABLE INCOMES

Many studies have concluded that the difference between book and taxable incomes was increasing throughout the late 1990s (we discuss these below). The divergence per se is not a concern, but what is a concern is that the cause of this divergence is unknown. The speculation is that it is caused by firm managers manipulating both incomes to achieve the best of both worlds: a high reported financial accounting income to shareholders and creditors designed to boost

¹⁴ See also McGill and Outsay (2002 and 2004) who examine some of the recent tax shelter cases to show that financial statement disclosures are limited with regard to information about a firm's tax status.

market value and a low reported taxable income designed to boost cash flows (by lowering tax payments) and reported financial accounting earnings (due to a lower tax expense).¹⁵

This divergence has been measured and analyzed in a variety of ways yet all reach very similar conclusions. One early analysis was done by the U.S. Treasury (1999). The Treasury examined Schedule M-1 reconciliations of book to taxable income and concluded that the evidence “suggests that the difference between book income and taxable income has increased recently” (p. 32). They calculate a ratio of aggregate pre-tax book income to aggregate taxable income and find that this ratio was 1.82 in 1995 and 1.86 in 1996, both of which are substantially above the average of 1.25 during the 1990-1994 period. In Figure 1, we include a copy of a Treasury graph showing this increasing book-tax gap between 1992-1996.

These Treasury results have been replicated with publicly available data (Plesko 2000; Manzon and Plesko 2002; Desai 2003) and extended with tabulated tax return data (Mills et al. 2002; Plesko 2002; Plesko 2004). The results of these studies agree with those of the Treasury -- the difference between book and taxable incomes increased in the late 1990s. We have included a figure from Plesko (2004) figure showing the book-tax gap (see Figure 2).

Yin (2003) evaluates the validity of the concerns over the book-tax gap by calculating effective tax rates (defined in Yin (2003) as current tax expense/pre-tax book income) and examines these rates over time for the S&P 500. Yin argues that many of the measures used in the prior studies may not be meaningful for corporations with significant foreign investment and are confounded by the potentially large book-tax difference created by the exercise of non-qualified stock options. Thus, Yin (2003) uses a different measure, the effective tax rate, but

¹⁵ For example, Desai (2004) uses anecdotal evidence from major corporate scandals (Enron, Tyco, and Xerox) to show that managers exploit the differences between book and tax reporting opportunistically thereby reducing the quality of corporate earnings measures for both book and tax purposes.

finds very similar results. He finds that the effective tax rates of the S&P 500 firms fell, on average, almost steadily throughout the six-year period 1995-2000 from 28.85% in 1995 to 24.20% in 2000. After adjusting for the effect of the large book-tax difference created by the exercise of non-qualified stock options he finds that the effective tax rates of the sample decreased from 30.11% in 1995 to 27.98% in 2000, a 7.1% decline.

Also using a measure of tax liability to total income, the U.S. General Accounting Office (GAO) reports that 94% of U.S. controlled corporations and 89% of foreign controlled corporations reported tax liabilities of less than 5% of their total income. The GAO found similar results for large corporations (defined as those with at least \$250 million in assets or \$50 million in gross receipts).¹⁶

To further verify and more importantly to update this book-tax gap through 2003, we present data based on financial statement information showing book and estimated taxable incomes over time in Table 1 and in Figures 3 and 4.¹⁷ The sample is taken from the merged dataset of the Compustat and CRSP databases. We exclude financial institutions (SIC codes 6000-6999) and utilities (SIC codes 4900-4999) because they operate in highly regulated industries and face a different set of tax and/or book rules than other firms. We also eliminate non-U.S. corporations and any firm-year observation in which the fiscal year changes in order to insure that observations are comparable across years. Our measure of financial accounting income is pre-tax book income. Our measure of taxable income is estimated by summing current federal income tax expense (Compustat data item 63) and current foreign tax expense (data item 64) to derive current tax expense, which is then divided by the top U.S. statutory tax rate

¹⁶ The data for the GAO study are from the IRS's Statistics of Income (SOI) samples of corporate tax returns for tax years 1996-2000.

¹⁷ Note that our estimated taxable income is based on financial statement information and thus, subject to considerable measurement error. This should be considered when evaluating the results –these are only *estimated* figures for taxable income.

applicable to that data year, from which result we subtract the change in net operating loss carryforwards.¹⁸

Table 1 shows the aggregate amounts of pre-tax book income and estimated taxable income for the sample. In addition, the fourth column provides the difference between the two income measures.¹⁹ The final column is the ratio of pre-tax book income to taxable income analogous to the ratio used by the Treasury in its 1999 report on tax shelters. While this ratio shows considerable variation over time, in general one can see that it is higher in the late 1990s than in the early part of the decade. The ratio then decreases significantly in 2001 and 2002 before increasing again in 2003. Figures 3 and 4 present the data in Table 1 in graphical form.

Overall, the data reveal that the aggregate book-tax difference turns positive (aggregate book income is greater than aggregate estimated taxable income) in 1994 and peaks in 1999. In the year 2001 the aggregate book-tax difference is markedly negative, that is, aggregate book income is actually less than aggregate estimated taxable income, consistent with results reported by Hanlon, Kelley and Shevlin (2004; hereafter HKS) and Plesko (2004). HKS find that the negative book-tax difference is due to large negative special items (totaling \$267,847 million for the sample).²⁰ Likewise, Plesko (2004) reports that the aggregate negative book-tax difference in his results is driven by loss firms (see our Figure 2). However, the difference in 2003 becomes

¹⁸ Our pre-tax book income is derived by deducting minority interest (Compustat data item 49) from pre-tax book income (data 170). Note that pre-tax book income (and estimated taxable income) includes the effects of special items (which the effects of the September 11 attacks are likely classified as) but excludes the effects of extraordinary items and discontinued operations. In the calculation of estimated taxable income, we subtract the change in the year-end net operating loss (NOL) carryforward because we require an estimate of the firm's taxable income (or loss) for the year prior to the effects of any carryback or carryforwards.

¹⁹ Our measure of the difference between book and taxable income does not include the book-tax difference for non-qualified stock options, discussed more fully below.

²⁰ To obtain further information on these special items, we hand-collect the financial statements for 10 firms in the year 2001 from the HKS sample that have a large negative difference between book and taxable incomes (i.e., taxable income is greater than financial accounting income). We find that the majority of the negative special items for these firms are the following (or a combination of the following): 1) write down for the impairment of goodwill and other intangible assets, 2) restructuring charges, and 3) the write-off of acquired in-process research and development.

positive again and in fact is at its highest level since 1986. While this may indicate that 2001 was likely an anomaly and the overall trend is an increasing one, future analysis will be required as it is difficult to interpret the increase in only one year.

Thus, there seems to be little debate that a large book-tax gap exists in the post Tax Reform Act of 1986 years, especially in the late 1990s. What there is disagreement about is the cause(s) of this increase and what, if anything, to do about it. For example, Yin (2003) states that it is uncertain whether the divergence is caused by firms simply making greater use of known provisions creating book-tax differences or if firms “increasingly overstated the amounts of their book income or understated the amounts of their tax liability (whether due to tax shelters or other causes)” (p. 1798). Manzon and Plesko (2002) are also noncommittal in their conclusions after attempting to model and explain firms’ book-tax differences.²¹ They state that they “interpret any unexplained residual as attributable to other factors, one of which may be tax shelter activity” (p. 177). Desai (2003) examines the divergence between book and taxable incomes and traces the discrepancy to the differential treatment of depreciation, the reporting of foreign source income, and the differences attributable to non-qualified employee stock options and finds that these items cannot fully explain the difference. He argues that the residual difference is likely due to tax shelter activity.

While not the focus of this paper, the book-tax difference created by non-qualified stock options (NQOs) warrants some attention because several researchers have singled out this item as a potential driving factor in the increasing book-tax gap (e.g., Yin 2001; Desai 2003).²² For

²¹ Manzon and Plesko’s (2002) model includes sales growth, property, post retirement benefits, foreign pre-tax income, lagged book-tax differences and others.

²² A non-qualified employee stock option is one of two types of employee stock option (ESO). The other type is an incentive stock option (ISO), or qualified option. An ISO is an option that qualifies for treatment under IRC sections 421-424. Non-qualified options constitute the vast majority of stock option grants. Much of this discussion about the stock option treatment is from Hanlon and Shevlin (2002) and Hanlon (2003).

financial accounting purposes, an expense for stock option compensation was not required in any of the years analyzed in the above mentioned studies. The accounting rules in place during those years encourage firms to recognize as compensation expense the fair value (i.e., the estimated value determined from an option pricing model such as the Black-Scholes model or the binomial option pricing model) of employee stock options (ESOs) at the measurement date (the date on which both the exercise price and number of options are known), but allows firms to continue accounting for ESOs by expensing the intrinsic value on the day of grant (zero for most firms).^{23,24}

In contrast to financial accounting, for tax purposes, NQOs entitle the granting firm to a deduction equal to the amount of ordinary income recognized by the employee on the exercise date.²⁵ Thus, the ESO tax deduction equals the intrinsic value (market price less the strike price) at exercise.

As a result, for NQOs most firms obtain a tax deduction in the exercise year but never recognize compensation expense for financial reporting purposes. Thus, a difference exists between book and taxable income.²⁶ This book-tax difference is not obvious, however, on financial statements because the rules require that the tax benefits related to NQOs be accounted for as a credit to additional paid-in capital with an offsetting debit to income taxes payable (thus,

²³ The rules are found in Statement of Financial Accounting Standards No. 123 *Accounting for Stock Based Compensation* and the rules prior to that are found in Accounting Principles Board No. 25 *Accounting for Stock Issued to Employees*. The FASB has proposed rules to require the expensing of stock option compensation that are currently slated to be effective for financial statements beginning after June 15, 2005.

²⁴ Prior to the recent surge in firms electing to expense their option costs, there were only two firms in the Fortune 500 that recognized compensation expense related to ESOs: Boeing and Winn Dixie. However, since the recent accounting scandals many firms, such as Coca-Cola, Wal-Mart, Ford Motor Company, Home Depot, Bank One, and others have elected to account for their stock options using the fair value method.

²⁵ This deduction is provided for in Internal Revenue Code § 83(h) as a deductible expense as defined in §162.

²⁶ See Hanlon and Shevlin (2002) for additional discussion on the accounting treatment of the tax benefits of stock options. It is important to note that even if firms elect or are required to expense stock options for financial accounting purposes, there is still a difference in the timing and amount for book versus tax treatment.

no reduction to tax expense).²⁷ Yin (2001) and Desai (2003) continue to find an increasing book-tax gap even after excluding this potentially large book-tax difference (as do we).

The accounting for stock options is a fruitful example of how Congress will likely get involved if book and tax incomes are conformed in the U.S. The question of whether to expense stock options has been a politically controversial issue for years with Congress getting involved with the rulemaking for financial reporting purposes. For example, in 1993 Senator Feinstein (California) introduced a bill to block the FASB's plan to require expensing of the fair value of stock option grants. In 1994, Senator Lieberman (Connecticut) introduced legislation that would have eliminated the FASB's independence by requiring the SEC to approve all new FASB standards. The FASB responded by not requiring firms to expense stock options. This is an ongoing issue. As the FASB attempts to respond to the recent accounting scandals and the International Accounting Standards Board's stance that stock option grants are compensation and should be expensed, they are again met with opposition from Congress. In 2004, a bill was passed in the House of Representatives that essentially requires firms to ignore any new FASB standard requiring the expensing of stock options for other than the top five executives of the firm (House Bill H.R. 3574, the Stock Option Accounting Reform Act). With this level of involvement in financial accounting rulemaking under a dual reporting system, it is likely that Congress will not concede the rulemaking for their revenue to an independent board and will have direct, and probably total, control over the rulemaking under a conformed income system. We discuss the experience in this regard of other countries that have more closely aligned book and taxable incomes in section 5.2.1.

²⁷ The Board's reasoning was that the tax benefits are related to a capital transaction with the owners of the company rather than a transaction related to income (see APB No. 25 para. 17).

In sum, there is evidence of a growing gap between book income and taxable income, however, there is little compelling evidence on precisely what is causing this divergence. Most speculate that it is either firms generally managing their earnings upward or using tax shelters to manage their taxable income downward. As a result, the proposed fixes to the problem of the growing gap generally seek to address both issues. We examine the proposed fixes next.

4. PROPOSED FIXES TO THE CURRENT SYSTEM

There have been three main proposed fixes to the problem of the diverging incomes. First, is the disclosure of the entire corporate tax return. For example, on July 8, 2002 Senator Charles Grassley (R-IA), then ranking member of the Senate Finance Committee, wrote a letter to the SEC and the Treasury Department raising the question of whether government regulators and the public might benefit if corporate tax returns were made public. He asked whether corporate governance would be improved if corporations' tax returns were available to the SEC and whether shareholders and employees would benefit if tax returns were publicly available.²⁸ Second, is the disclosure of limited tax return information such as the amount of taxable income. In April, 2003, Representative Lloyd Doggett (D-TX) introduced a bill that provided for public disclosure of certain corporate tax return information such as corporate taxable income and income tax shown on the return, the amount of federal income tax expense on the company's annual report, the company's adjusted book income, and certain items causing the discrepancy between tax and book income.

A thorough discussion of these first two options, publicly disclosing tax returns and publicly disclosing limited tax information, is provided by LSS and the interested reader is

²⁸ We note that the SEC can gain access to tax returns because IRC §6103(i)(3) permits the IRS to disclose certain otherwise confidential tax information to other federal agencies if the information may constitute evidence of a violation of any federal criminal law.

directed there. In sum, the authors in their (tentative) conclusions support the second of these proposals (i.e., the disclosure of total tax liability and other specific items from the tax return) but do not support the disclosure of entire tax returns. They argue against the first proposal because of their concern that the disclosure of the entire tax return could cause companies to dilute the information content of the returns, hampering tax enforcement, and might, even in diluted form, reveal proprietary information that could provide a competitive advantage to those companies that are not required to make such a disclosure. They support the revelation of taxable income and other items, however, because this would “contribute to the transparency of the tax system by clarifying the tax payments of corporations in and of themselves, relative to other corporations, and relative to the income they report on their financial statements” (p. 827).

The third proposed solution is to conform the two incomes into one measure or have partial conformity by reducing the number of allowable book-tax differences. In addition to the calls for conformity by Yin (2001) and Desai (2004), the Treasury in its report suggests using “...book income as a floor on the corporation’s taxable income. This would eliminate the book-tax disparity, and therefore would significantly limit the allure and benefit of corporate tax shelters to public corporations” (p. 116). In addition, Murray writes in the *Wall Street Journal*, “The gap can and should be narrowed. ...The results would be a stronger incentive for companies to tell it like it is. If executives want to overstate income to fool shareholders, they’ll pay higher taxes as a result. If they are tempted to understate income in order to escape taxes, they’ll suffer with the shareholders. That kind of change in incentives would do far more to clean up corporate accounting than any amount of regulatory oversight” (October 8, 2002, A5 “Narrowing Tax Gap Should be Priority of Next Congress”). Finally, Pam Olson, the former Treasury Assistant Secretary for Tax Policy, states “...we should also carefully consider

eliminating some of the differences between book and tax reporting” (Hamilton and Radziejewska, 2003 *Tax Notes*, March 31, 2003, p. 1935). It is to this issue that we now turn.

5. ISSUES WITH CONFORMITY

When considering conforming book and taxable incomes, one first must ponder how this would actually work. What income measure would be reported if the numbers are conformed? Would the new measure be the taxable income we have under the current system, or the financial accounting number, or alternatively, some hybrid number in between? In addition, who would govern the rulemaking for this new conformed income measure—Congress directly or an independent board such as the FASB under today’s structure?

Our conjecture is that the new measure would approximate today’s taxable income number and rulemaking responsibility would be under the direction of Congress. If the conformed number is the one on which tax revenues will be based, we do not believe Congress will leave its determination up to an independent board unconcerned with the Treasury’s budgetary needs. Partial conformity, where both measures are retained but the differences between the two are significantly reduced, is also an option.²⁹ However, in light of George Stigler’s (1971) work where he discusses how regulators are often captured by the regulated enterprises, promoting the interests of the firms instead of the common good, we doubt a reduction in the differences would be successful (again, note the stock option controversy where the constituents of Congress have been very influential). Further, Hulse (1996) finds that often special tax treatment is included in legislation to obtain the vote of particular legislators and that \$10.6 billion of such provisions were included in the Tax Reform Act of 1986. Thus, a reduction of the book-tax differences is unlikely, at least in the long-run because differences would

²⁹ We discuss this option further below.

continually be added to satisfy special interest groups and constituencies. As a result, we discuss the costs and benefits of the proposal to conform the incomes with the underlying assumption being that if the two incomes are conformed the reported measure of income will be, or at least approach, the current measure of taxable income and the rulemaking will be done directly by Congress rather than an independent, private board.³⁰

Before we examine the costs and benefits of conformity, we first note that this is not an entirely new concept. The Tax Reform Act of 1986 required a book income adjustment in the calculation of a firm's alternative minimum tax. This was the first time in U.S. tax history that a federal income tax liability was based partially on income derived explicitly from financial statements prepared in accordance with GAAP. The link was established to "ensure that no taxpayer with substantial economic income can avoid significant tax liability by using exclusions, deductions, and credits" (S. Rep. No. 99-313, at 518 (1986)). However, many speculated that firms would manage their financial accounting earnings in the years surrounding the change in the tax provisions in order to minimize their tax liabilities in those years. Further, some thought that the link weakened financial accounting. For example, acting Assistant Treasury Secretary for Tax Policy John Wilkens stated:

The book income adjustment may be having a detrimental effect on the quality of financial reporting. The linkage between financial statement income and tax liability creates an incentive for corporations potentially subject to the AMT to apply generally accepted accounting principles (GAAP) in a way that reduces the amount of net book income subject to the book income adjustment. Accordingly, general purpose financial statements may provide distorted financial data to investors, creditors, and other nontax users... (U.S. Congress, House, June 8, 1989).

³⁰ We admit that the FASB has also succumbed to political pressure in the past regarding the accounting for marketable securities, employee stock options, and business combinations. However, we argue that Congress exerted much of this pressure. See Zeff (2002) for a discussion of each of these three issues and the politics involved.

However, the empirical evidence on this question of whether firms managed financial accounting earnings in order to minimize their tax liabilities is mixed with some studies finding that firms did manage financial accounting earnings in order to reduce taxes (e.g., Gramlich 1991 and Dhaliwal and Wang 1992) but with Choi et al., (1998) concluding that little evidence supports the AMT-driven income shifting.

5.1 Potential Benefits of Conforming Book and Taxable Incomes

Many argue that the temptation on the part of executives to mislead/lie for either financial accounting or taxable income purposes would be significantly reduced or even eliminated (Yin 2001, Desai 2004, Carnahan and Novack 2002). Executives would not be inclined to overstate income because this would result in higher taxes and they would not want to understate income because this would result in lower income reported to creditors and shareholders. In addition, it would, many argue, simplify a currently very complex reporting environment.

A second potentially important benefit of conforming the income measures is that corporations would incur less compliance cost as they would report (essentially) the same measure to both the IRS and the SEC. As an example of the magnitude of the costs incurred currently under the dual reporting system, in 2003 the total revenues for the four largest accounting firms for auditing and advisory services was \$9.6 billion and total revenues for tax services for these firms was \$5.5 billion.³¹ Together this is approximately 3% of the total reported earnings of the firms in the S&P 500 index.³² Another example of the costs is found in

³¹ From *Public Accounting Report's* Top 100.

³² Reported earnings for the S&P 500 for the four quarters in 2003 was \$450.38 billion (source: Standard and Poor's S&P 500 Earnings and Estimate Report at www.standardandpoors.com). We note that in some sense this is a lower bound estimate of the costs firms incur as these figures are only for the largest four accounting firms and do not include the in-house and other costs required to comply with the IRS regulations and FASB and SEC standards. However, on the other hand, this calculation may overstate the compliance costs of two systems because it includes

Slemrod and Blumenthal (1996). The authors surveyed 1,329 of the largest corporations in the U.S. in 1992 and find the average annual cost of compliance for federal and subfederal corporate income tax reporting is \$1.565 billion, implying an aggregate compliance cost of over \$2 billion.

5.2 *Potential Costs of Conforming Book and Taxable Incomes*

There are potential costs to conforming the incomes as well. Most notably, is the loss of information to the financial markets. There is a long line of literature in the U.S. demonstrating the value relevance and information content of financial accounting earnings and earnings announcements, beginning with Beaver (1968) and Ball and Brown (1968).³³ Thus, if our conjecture is correct and taxable income is the income measure that is used after the two incomes are conformed, financial accounting earnings will no longer be available resulting in a loss of information to the capital markets. More specifically, the loss of information would occur because, as LSS discuss, many accruals that financial accountants use to reflect current economic

foreign and state related amounts as well as audit (i.e., checking the books, the internal controls, etc.) costs which presumably occur under either system.

³³ See Kothari (2001) for an extensive review of the literature examining the capital market's use of accounting information. In addition, there have been several studies examining the information content of financial accounting earnings over time using short-window event study methodology. All of these short window studies find results consistent with the information content of earnings remaining constant or slightly increasing over time (e.g., Landsman and Maydew 2002; Lo and Lys 2000). There have been some long window studies that show that the value relevance of accounting earnings has decreased over time (e.g., Collins, Maydew and Weiss 1997, Brown, Lo and Lys 1999). One explanation for this is that there is an increasing number of firms reporting losses. For example, Joos and Plesko (2004) report that in the 1970s only 15% of the Standard and Poor's Compustat database reported a loss but by the 1990s about 35% of the observations are losses. In addition, Skinner (2004) discusses changes in reported earnings over the last 25 years and argues that recent research documents that there has been a large increase in the frequency and magnitude of losses (in 2001 aggregate earnings were a negative \$110 billion with 59% of firms reporting losses). Further, Fama and French (2004) find that after 1979 the characteristics of new lists change. For example, they argue that weaker firms with more distant expected payoffs became more viable candidates for public financing in the last 25 years. This increase in loss firms is important because losses are known to be less informative about a firm's future prospects (and thus less related to a firm's value) than are profits (Hayn 1995). However, conforming the incomes will not likely improve this situation because earnings under a conformed system will likely be much more conservative in an attempt to save tax dollars (Joos and Lang 1994). Based on prior research (e.g., Ali and Hwang 2000), these more conservative earnings will likely be less value relevant than currently reported financial accounting earnings.

performance would be eliminated if the incomes are conformed. One example is bad debt expense. As discussed above, under GAAP this expense is estimated and matched to the associated revenues while for tax purposes the deduction is not taken until the account receivable actually is known to be uncollectible. If this book-tax difference is removed and the tax treatment prevails, then profits and assets will be overstated in the period of the sale because one of the costs of generating the sale will not be properly matched to the revenue. Thus, this year's profit will appear high while future periods will have to absorb the related expenses.

5.2.1. Value relevance of financial accounting earnings in international settings

As discussed above, prior research has well established that financial accounting earnings in the U.S. are value relevant. Several recent studies investigate the value relevance of accounting earnings across countries including countries that have a high level of association between financial accounting and tax incomes. This research provides indirect, but important evidence on the potential loss of information if the U.S. would conform book and tax incomes to one measure.

The closest study providing information on the issue is Ali and Hwang (2000), which examines the relation between measures of the value relevance of financial accounting data and several country-specific factors. Value relevance is defined as the relevance (importance) of accounting earnings to investors in the pricing of stocks – we discuss empirical operationalization of the concept in section 5.2.2 below. The country specific factors examined by Ali and Hwang (2000) include the degree to which tax rules influence financial accounting measurements, the involvement of a private sector body in the standard setting process, and whether the country has a bank-oriented or market-oriented financial system. Ali and Hwang

(2000) find that value relevance of earnings is lower when tax rules significantly influence financial accounting measurements. This result is consistent with tax laws being influenced by political, social, and economic objectives rather than the information needs of investors. This evidence would lead to the prediction that if book and tax incomes are conformed in the U.S., there would be a loss of value-relevant information in the capital markets.

The authors also find that value relevance of financial accounting earnings is lower for countries where private-sector bodies are not involved in the standard-setting process. This finding is consistent with the premise that government standard setters establish financial accounting rules with the primary purpose of satisfying regulatory needs rather than providing performance information to investors. Thus, if under a conformed income regime, the FASB is eliminated and the government promulgates the rules for the conformed income measure, a loss of information to the market would result.

Ali and Hwang (2000) also find that financial accounting data are less value-relevant when the financial system is more bank-oriented as compared to market-oriented. This result is consistent with there being a lower demand for published value-relevant financial reports because the banks have direct access to the financial information of the company. This is important to the proposal to conform incomes in the U.S. because under the condition where financial accounting income is not the conformed income measure as we conjecture, it is likely that information regarding performance will be obtained by interested parties through other methods. Indeed, Ball, Kothari and Robin (2000) report that investors in countries that are more code oriented (i.e., where tax and book incomes are very closely linked) use other means (such as banking relationships and relationships with other major stakeholders) to obtain information about firm performance. Ball, Kothari and Robin (2000) also find that valuation in these

countries is much less related to reported earnings consistent with the findings of Ali and Hwang (2000).³⁴

In addition to the value-relevance effects of linking tax and book incomes, studies also point to the more conservative nature of earnings when book and tax incomes are closely linked. For example, Joos and Lang (1994) in their study of the effects of accounting diversity across the European Union state that in those countries where the link is strong, "...the required conformity between financial and tax reporting has provided incentives to reduce taxes by reporting lower profits" (p 145).³⁵ Thus, linking the two incomes may indeed reduce the overstating of earnings for financial accounting. However, based on the evidence in the research discussed above, the income number we would be left with would not be as useful for evaluating firm performance.

5.2.2 A comparison of the value relevance of book and tax incomes

While there is an extensive literature on the value relevance of accounting earnings in the U.S. and several papers about the value relevance of accounting earnings across countries, there is little research examining the value relevance (or informational) role of taxable income. One recent paper that does is Hanlon, Kelley, and Shevlin (2004; HKS) which examines whether and to what extent information to stock market participants would be lost if financial accounting income is conformed to taxable income.

The study uses a sample of 66,678 U.S. firm-year observations over the period 1983-2001 to conduct tests to assess the information content of book and estimated taxable incomes.

³⁴ We note in addition to the loss of value relevance of earnings in this case, that it is not costless to investors and to the economy to develop other means for firm stakeholders to obtain information about firm performance.

³⁵ Consistent with the international findings, in a U.S. setting, Guenther, Maydew and Nutter (1997) find that for a unique set of publicly traded firms that were forced to switch for tax purposes from the cash method to the accrual method that requiring the use of the accrual method for tax (conforming taxable income closer to that of financial accounting income) causes firms to defer income (making income more conservative) for financial statement purposes.

Information content is measured by the ability of income to capture or summarize information that affects equity prices and returns. HKS use information from firms' financial statements to estimate taxable income because taxable income is not publicly available. While there are some known estimation errors associated with using financial statements to estimate taxable income, for the purposes of their tests the financial statement number is more appropriate than the actual taxable income from tax return data (if such data were obtainable) because the market can only use the publicly available measure in pricing securities.³⁶ Specifically, the authors estimate (world-wide) taxable income by summing federal and foreign current income tax expense and dividing this by the top statutory tax rate for the applicable year. The authors then subtract the change in net operating loss carryforwards because they want the estimate of taxable income prior to the effects of any carryforwards of net operating losses. The study uses a 16-month long event window to calculate market-adjusted security returns and tests the association of these returns with both book (world-wide pre-tax financial accounting income) and estimated taxable incomes. More specifically, the return is the market-adjusted return for each firm defined as the compound (with dividend) return less the compound return on the value-weighted market portfolio. Returns are calculated over a 16-month period, starting at the beginning of the fiscal year and ending four months after the end of fiscal year so that all of the financial statement information is available to market participants.

The authors assess the relative information content of the income measures by regressing the buy-and-hold market adjusted return to the security over the 16-month return window on the change in each annual measure of income. The regression models are as follows:

$$R_{jt} = a_0 + a_1 \Delta PTBI_{jt} + e_{jt}$$

³⁶ See Hanlon (2003) for a discussion of the problems in using financial statement information to estimate taxable income and tax liabilities.

$$R_{jt} = b_0 + b_1 \Delta TI_{jt} + e_{jt}$$

where R_{jt} is the buy-and-hold market-adjusted return to each security, j , over the 16-month return window,³⁷ PTBI is pre-tax book income and TI is estimated taxable income. Each model is estimated annually. A comparison of the annual R squareds allows the determination of which measure of performance, book income or taxable income, is more highly associated with stock returns in each year. The average annual R squared for the regression using the change in (pre-tax) book income is 0.059 while the average annual R squared for the regression using the change in estimated taxable income is only 0.032. Figure 5 plots the ratio of R squareds from HKS's analysis. One can see that the ratio varies around 50% for most of the years, indicating that pre-tax book income exhibits higher explanatory ability (roughly twice as much in most years). A formal comparison of the adjusted R squareds from the annual regressions is conducted using the Voung (1989) test. The results of the Voung test indicate that in all but three years of the sample period 1983-2001, book income exhibits significantly greater explanatory power than estimated taxable income. Further, the average annual R^2 ratio is 0.547, which is significantly less than one based on its time-series variation. In sum, the results of this test are consistent with book income containing more information because it has a significantly higher explanatory power than estimated taxable income.

HKS also conduct a test of incremental information content, where changes in both measures of income are included in the same regression in which the dependent variable is the 16-month market-adjusted security return. The estimated regression model is as follows:

$$R_{jt} = c_0 + c_1 \Delta PTBI_{jt} + c_2 \Delta TI_{jt} + e_{jt}$$

³⁷ The authors use the value-weighted market index from CRSP to calculate market-adjusted returns.

From this test an assessment can be made whether, given one measure of income, the other measure incrementally adds to the information set as reflected in security returns. This analysis most directly tests whether useful information would be lost if the two income measures become one. We present a summary of their results in Table 2. The authors find that book income has a significantly positive average annual coefficient ($c_1=0.55$, t-stat of 18.87) as does estimated taxable income ($c_2= 0.28$, t-stat of 7.65). Thus, both measures provide information incremental to the information provided by the other measure, which indicates that there would be a loss of information available to investors if only one of these two income measures was used.

In sum, the study shows that both book and tax measures of income provide information to investors but that the market appears to rely more on book income than taxable income as a measure of firm performance. The authors conclude from the study that if book income were conformed to taxable income that there would be an approximately 50% loss in the explanatory power of earnings.

5.2.3 Potential effects of having taxable income available to the public

If our conjecture is correct that conformed income would resemble taxable income, there will likely be additional effects simply from having taxable income publicly disclosed. On one hand, public disclosure of taxable income may facilitate greater tax compliance because company executives may be concerned that if it is known that their taxable income is unusually low the public may react adversely. Indeed, as LSS report, corporations' concern with their public perception is evidenced by their charitable giving of \$9.05 billion in 2001. In addition, the public may boycott the products of companies thought to be poor corporate citizens (e.g., the Nike sweatshop controversy). Further, according to a survey of 2,594 adult Americans by Hill

and Knowlton (2001), 79 percent of Americans said they consider good corporate citizenship when deciding whether to buy a particular company's stock.

On the other hand, the revelation of corporate taxes may result in corporate competition based on taxes leading to a "race to the bottom" of tax rates (LSS). Already, websites such as CFO.com allow Chief Financial Officers to measure their company's performance against peers on four dimensions one of which is tax efficiency (Desai 2004). Further evidence that suggests firms compete on this measure and use low taxes as a source of corporate profits is found in a recent GAO report which finds that 32.7% of large U.S. corporations reported no tax liability in 1995 and that percentage increased to 45.3% by 2000 (GAO 2004).

Thus, while many argue that conforming the two income measures will yield more honest reporting for both book and tax purposes this result is not clear. Firms may just compete based on tax rates to pay low taxes yielding higher cash flows for shareholders. If this is the case, corporate over reporting on financial statements will not be such an issue, but investors will instead have very little information on which to evaluate firm performance.

5.3 Partial Conformity

There is also the possibility that rather than fully conforming the two income numbers, the number of book-tax differences allowed could be reduced. While this sounds reasonable on paper, in practice which differences would be disallowed? We state above that we think that before long with a reduced book-tax difference system we would be back to the current system with innumerable adjustments because the private interest groups and constituencies that

lawmakers serve will demand special exceptions for their specific situations.³⁸ However, in this section we briefly examine some items that could potentially be conformed.

The most obvious book-tax difference that could be conformed is that for depreciation. Financial accounting could adopt the tax method of depreciation, MACRS. This would result in many firms switching from straight-line depreciation to accelerated depreciation. It is unlikely that this would result in a loss of information to investors because economic depreciation of an asset does not follow either of these methods exactly. In addition, the expected life of the asset could still be disclosed to investors.³⁹ Thus, this is one difference which could be eliminated with minimal cost in terms of revenue or information.⁴⁰

Another item one could consider is deferred revenue. For financial accounting purposes an item of revenue is not recognized (i.e., it is deferred) if it is not earned or is not measurable. Thus, when software companies sell software with a service contract over a number of years, the revenue allocable to the service contract is not recognized in income until the service period expires. For tax purposes, however, this revenue is taxed upon receipt. If the deferral method were adopted under both systems there would be a deferral of revenue for tax purposes resulting in a loss of government revenues (at a minimum in terms of present value) and measurement for tax done by subjective estimates. If the recognition upon receipt method were adopted under both systems, investors would be left without information regarding a liability of the firm (i.e., the services yet to be performed) and a firm could report revenues currently which are related to

³⁸ Consistent with this view, a recent *Wall Street Journal* article states “Today’s tax code is complicated in part because politicians of both parties are quick to create tax breaks for their favorite causes” (Murray 2004).

³⁹ If the straight-line method most often used for financial accounting was adopted for taxation purposes there would be a revenue gain but a loss of a method of providing incentives for investment behavior. Because additional incentives in excess of MACRS are often provided through depreciation methods (e.g., IRC Section 179 and the bonus depreciation rules following the 9/11 attacks) conforming to financial accounting depreciation would likely entail the greater cost.

⁴⁰ Under current GAAP rules, property is recorded at historical cost and this cost is allocated over the service period of the asset. We note that using the MACRS system for depreciation would be consistent with a more fair value-based approach to which financial accounting is moving in general.

expenses that will not be incurred for several years, thus potentially misleading financial statement readers about firm performance.

Another example is the allowance for doubtful accounts. If conformed to the tax method of allowing only specific write-offs, investors will not receive information from managers regarding the proportion of the current receivables that are expected to be uncollectible. However, if tax were to conform to the financial accounting method of estimating the amount to expense, the government would again suffer a revenue loss and be subject to deductions based on management expectations, which would be impossible to verify and audit.

While the examples are endless, in general, most items will present a trade-off between information for investors and revenue and control for the government. While there are some items (such as depreciation) where the loss of information may not be large if financial accounting converted to the tax method, and other items which could arguably be conformed while still providing information to external stakeholders (e.g., debt-equity hybrid securities and synthetic leases), the majority of book-tax differences would likely involve the aforementioned trade-off. A further item that warrants attention is the suggestion to eliminate many book-tax differences and then require firms to provide details in the notes to financial statements with additional information. However, there is a point at which a high level of disclosure becomes non-disclosure because time and funds are not infinite for investors (even sophisticated investors) to assimilate that much information. In addition, we note again that perhaps the greatest concern about the partial conformity plan is that we would soon be back to the current system because special interest groups and constituencies would lobby Congress to retain book-tax differences important to them and these would be added continually through the years.

6. CONCLUSIONS

This paper discusses the issues surrounding the proposals to conform financial accounting income and taxable income. We review recent literature that sheds light on this proposal in order to inform the policy debate regarding what to do about the current reporting gap between financial accounting and taxable incomes.

The expanding divergence between book and taxable incomes has attracted much attention and analysis in recent years. While there is little debate that the incomes are diverging, what is causing the divergence and whether and how to fix it are very much open questions. In general, there is no convincing evidence regarding exactly what is causing the increasing book-tax gap. However, most suspect that it is either due to firms managing financial accounting earnings upward, engaging in tax shelters in order to minimize taxable income, or both. There have been three proposed solutions to the problem of the increasing divergence between the two incomes. We discuss the third proposal, the conforming of book and taxable incomes to one measure.

We conjecture that upon conforming the incomes Congress will usurp FASB and will promulgate the rules for determining the new income measure. In light of this we consider both the potential costs and benefits of changing our dual reporting system to one in which corporations report the same income to shareholders and the IRS. Potential benefits include lower compliance cost for reporting their income and the potential lowering of incentives to mislead the IRS and capital markets. The potential costs include the loss of value-relevant information to the capital markets by eliminating one measure of income with the greater loss coming from eliminating financial accounting earnings. In addition, the extant empirical literature reveals that it is unlikely that having a system where financial accounting earnings and

taxable income are conformed (or even closely linked) will result in a reduction of corporate tax shelters. In fact, the opposite may occur where there is a “race to the bottom” in terms of corporate tax rates and payments.

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Table 1:
Pre-Tax Book Income and Estimated Taxable Income from 1985-2003

YEAR	PTBI	TI	DIFFERENCE	RATIO OF PTBI/TI
1985	\$138,904	\$99,868	\$39,036	1.39
1986	\$130,162	\$80,622	\$49,539	1.61
1987	\$167,736	\$137,019	\$30,716	1.22
1988	\$191,108	\$188,720	\$2,388	1.01
1989	\$191,130	\$184,844	\$6,286	1.03
1990	\$192,730	\$198,181	-\$5,450	0.97
1991	\$147,180	\$180,259	-\$33,078	0.82
1992	\$162,516	\$175,495	-\$12,979	0.93
1993	\$187,691	\$204,951	-\$17,261	0.92
1994	\$279,280	\$244,924	\$34,357	1.14
1995	\$325,822	\$285,528	\$40,294	1.14
1996	\$370,463	\$327,303	\$43,160	1.13
1997	\$383,911	\$361,882	\$22,029	1.06
1998	\$355,245	\$345,330	\$9,915	1.03
1999	\$444,745	\$386,256	\$58,489	1.15
2000	\$486,431	\$450,564	\$35,867	1.08
2001	\$125,049	\$316,144	-\$191,095	0.40
2002	\$229,551	\$246,048	-\$16,497	0.93
2003	\$462,055	\$305,708	\$156,347	1.51

Notes to Table 1:

All amounts are in millions. PTBI is pre-tax book income and is derived by deducting minority interest (Compustat data item 49) from pre-tax book income (data 170). TI is estimated taxable income and is estimated by summing current federal income tax expense (Compustat data item 63) and current foreign tax expense (data item 64) to derive current tax expense, which is then divided by the top U.S. statutory tax rate applicable to that data year, from which result we subtract the change in net operating loss (NOL) carryforwards. More specifically TI is estimated as $[(\text{current federal} + \text{current foreign income tax expense}) / \text{str}] - \Delta \text{NOL}$, where str is the top statutory tax rate applicable to that data year. If federal current tax expense is missing we use total current tax expense (data 16-data 50) rather than the sum of federal and foreign current tax expense. Difference is calculated as PTBI less TI.

Table 2:
Portion of Table 4 from Hanlon, Kelley, and Shevlin (2004) - Incremental Information Content

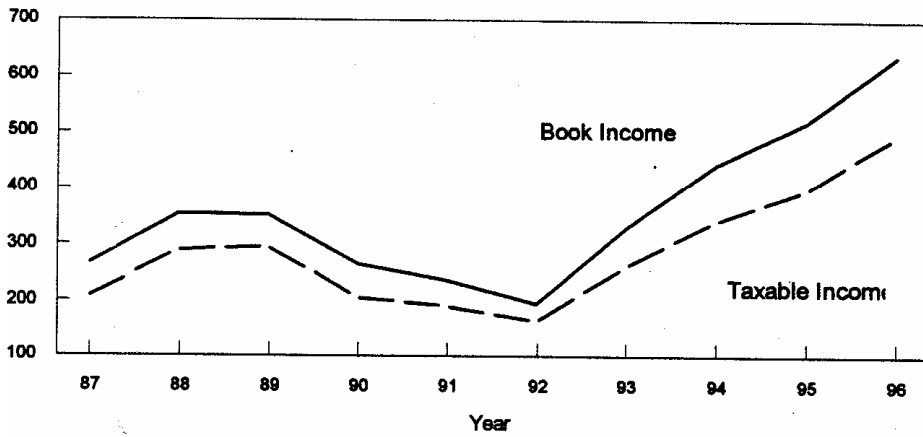
$$R_{jt} = c_0 + c_1 \Delta PTBI_{jt} + c_2 \Delta TI_{jt} + e_{jt}$$

Year	N	$\Delta PTBI$	ΔTI
1983	2,225	0.67*	0.50*
1984	2,866	0.41*	0.23*
1985	2,984	0.54*	0.12
1986	2,933	0.59*	0.08
1987	3,048	0.43*	0.16*
1988	3,188	0.48*	0.19*
1989	3,182	0.50*	0.03
1990	3,140	0.43*	0.13*
1991	3,180	0.43*	0.39*
1992	3,238	0.61*	0.21*
1993	3,454	0.64*	0.32*
1994	3,741	0.60*	0.26*
1995	3,999	0.83*	0.57*
1996	4,233	0.59*	0.38*
1997	4,544	0.62*	0.59*
1998	4,449	0.34*	0.44*
1999	4,258	0.53*	0.23*
2000	4,077	0.79*	0.29*
2001	3,939	0.47*	0.27*
Average		0.55	0.28
t-statistic		18.87	7.65

Notes: R_{jt} = the market-adjusted buy and hold return on security j cumulated over a 16-month window ending 4 months following the end of fiscal year t . $\Delta PTBI$ = the change in firm j 's pre-tax book income which is calculated as the first difference in pre-tax book income less minority interest, scaled by the market value of equity at the beginning of period t . ΔTI = the change in firm j 's taxable income which is estimated by dividing the sum of federal and foreign tax expense by the maximum statutory tax rate, subtracting the ΔNOL carryforward, and then taking the first difference. If this information is not available, ΔTI is calculated by dividing the difference of current tax expense and deferred taxes by the maximum statutory tax rate, subtracting ΔNOL carryforward, and then taking the first difference. Finally, the result is scaled by the market value of equity at the beginning of period t . N is the number of observations used in estimating each annual regression. The t statistic is based on the annual deviation of the coefficient around its grand mean. * indicates significance at the 0.05 level or lower.

Figure 1:
Figure from U.S. Treasury (1999)

**Figure 1. Book Income vs. Taxable Income
for Corporations With More Than \$1 Billion in Assets
(in Billions of 1992 Dollars)**



Pre-tax book income is defined as after-tax book income plus federal taxes, as reported on lines 1 and 2 of Schedule M.

Figure 2:
Figure from Plesko (2004)

Figure 1: Book-Tax Reporting Differences, 1995 - 2001

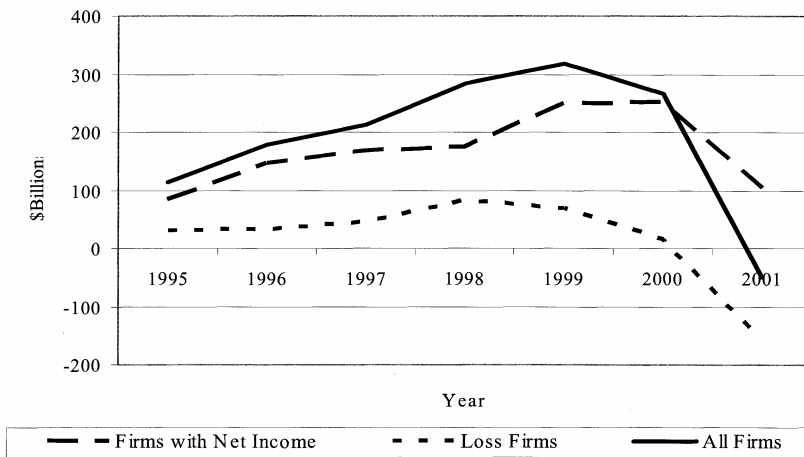
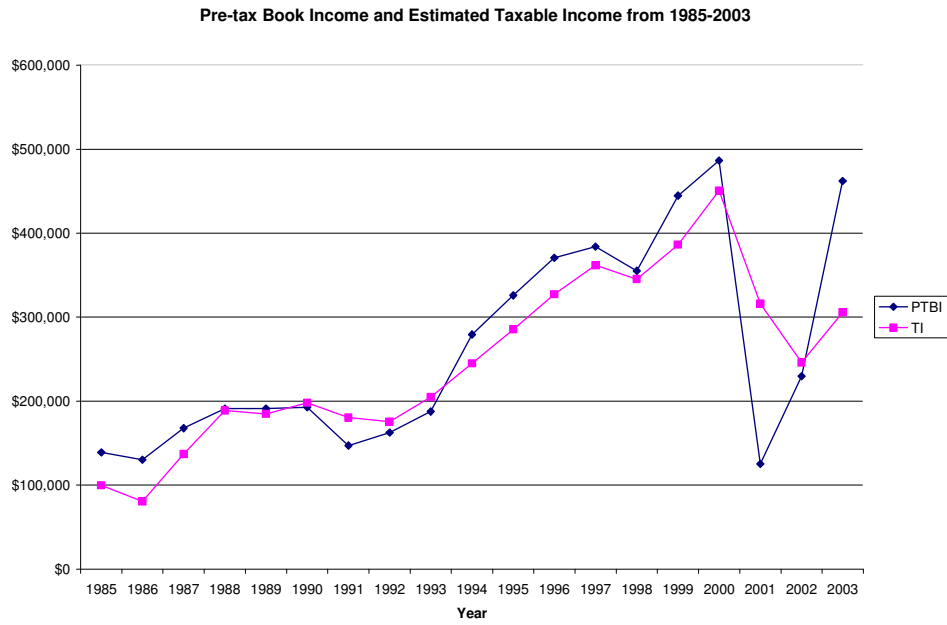
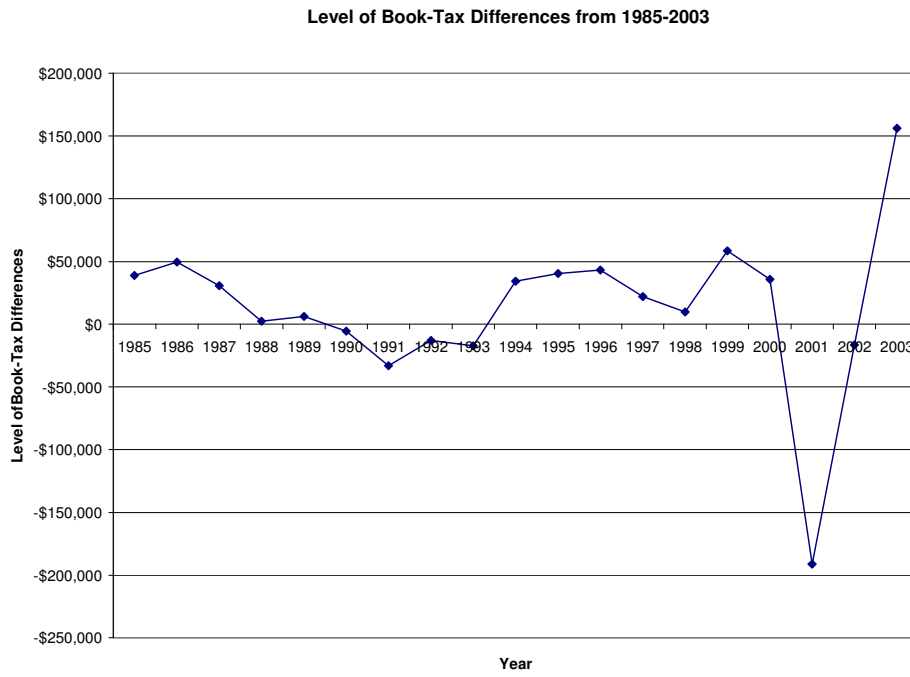


Figure 3:
Graph of Pre-tax Book Income and Estimated Taxable Income



Notes to Figure 3:
 See Table 1 for variable definitions. All amounts in millions.

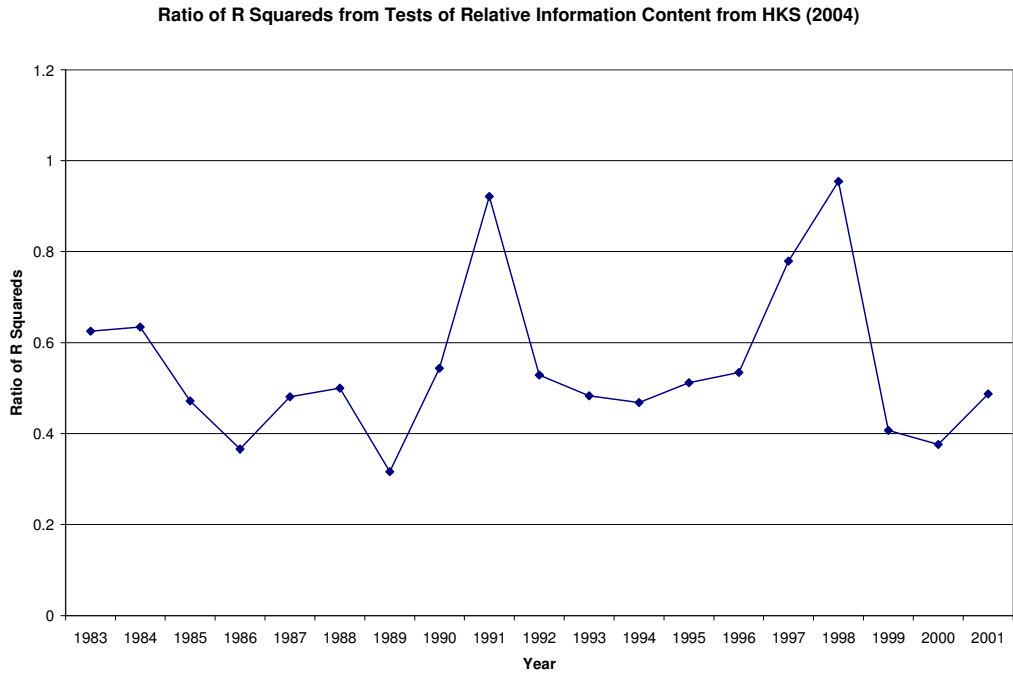
Figure 4:
Graph of the Level of Book-Tax Differences



Notes to Figure 4:
See Table 1 for variable definitions. All amounts in millions.

Figure 5:
Plot of the Ratio of R Squareds from Tests of Relative Information Content from Hanlon, Kelley, and Shevlin (2004)

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Notes to Figure 5:

The R squareds compared are from the following regressions: $R_{jt} = a_0 + a_1 \Delta PTBI_{jt} + e_{jt}$ and $R_{jt} = b_0 + b_1 \Delta TI_{jt} + e_{jt}$ where R_{jt} = the market-adjusted buy and hold return on security j cumulated over a 16-month window ending 4 months following the end of the fiscal year t , $\Delta PTBI$ = the change in firm j 's pre-tax book income which is calculated as the first difference in pre-tax book income less minority interest, scaled by the market value of equity at the beginning of period t , ΔTI = the change in firm j 's taxable income which is estimated by dividing the sum of federal and foreign tax expense by the maximum statutory tax rate, subtracting the ΔNOL carryforward, and then taking the first difference. If this information is not available, ΔTI is calculated by dividing the difference of current tax expense and deferred taxes by the maximum statutory tax rate, subtracting ΔNOL carryforward, and then taking the first difference. Finally, the result is scaled by the market value of equity at the beginning of period t .

The adjusted R^2 ratio = $R_{\Delta TI}^2 / R_{\Delta PTBI}^2$.