RESEARCH ARTICLE

OPEN ACCESS

INTRODUCTION OF CREDIT DEFAULT SWAPS: IMPLICATIONS ON MONETARY POLICY AND FINANCIAL STABILITYOF DEVELOPING ECONOMIES LIKE INDIA

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I. INTRODUCTION:

In recent times issue of credit risk management has been attracting a great deal of attention all over the world. Despite structural developments various riskmanagement practitioners and regulators are still overtly concerned about risk exposure and the issues related to credit default. Credit risk is defined as the loss associated with unexpected changes in credit quality, Duffe and Singleton (2003). It can be incurred through the issuance of loans, as also by taking positions in corporate bonds or transactions in over-the counter (OTC) markets, which might involve the risk of default by a counter party. However the issues of credit risk management in the Debt markets is complicated by problems related to market imperfections (i.e. adverse selection-moral hazard issues), relatively longer tenures of credit and skewed nature of credit risk. The probability of a debtor improving his credit worthiness is lower compared to the probability of deterioration in his credit worthiness. The introduction of Basel II norm has had pronounced effects on the pricing, trading and risk analysis of both private and public debt instruments. Capital ratios and regulation have been partially adjusted with derivatives in order to let them emerge in the balance sheets of banks and financial institutions. The Balance of Payments has an entry in Financial Accounts with the sum of all margins of international derivatives, which provides an

idea of trading on these instruments. Many central banks have imposed further (in or off balance) information disclosure norms on banks and financial institutions about their derivatives' investments. The present paper aims to analyse the role of credit default swaps and its implicationson monetary policy and financial stability as witnessed in the international market and draw conclusions for developing economies like India. It is maintained that use of credit derivatives may reduce the transparency within the financial system regarding allocation of risks and at the same time reduce the effect of money policy transmission. The problem of designing an appropriate regulatory structure are becoming more difficult with derivatives and off-balance sheet items, and are more difficult for developing countries, both because they are likely to face a shortage of good regulators and because they face greater risks {Furman and Stiglz (1998). The remainder of this paper is structured as follows. The rest of the introductorv Section contains introduction to growth of global credit derivative market, the credit derivative instrument and evolution of derivatives in India, the second section includes a brief review of literature on credit default swaps. In the third section an attempt is made to analyze the aggregate effects of credit default swaps from a macroeconomic perspective its implications for the financial system and the conduct of monetary policy is described. Section four discusses the implications for India and the last section presents a summary of the discussions.

II. The Growth of Global Credit Derivatives Market:

The restructuring of the world economy and a universal acceptance of "Liberalization" and "deregulation" of the financial markets including international finance has helped International trade to move from an "Increasing sum Game" to a "Zero-Sum-Game", which can create a win-win situation for all concerned. Derivatives are prime instruments of this transition. Derivatives can be defined in broad terms as instruments that primarily derive their value from the performance of an underlying asset class. In other words a derivative is an agreement between two parties by which one party shifts its risk to another, the value being derived from the value of an underlying asset. A credit derivative transfers the credit risk contained in a loan, interbank transaction or bond form one party to another. Credit derivative evolved in response to the need of financial institutions to hedge and diversify their credit risk. However the use of financial/credit instruments to provide protection against default is not exactly new. Letters of credit or bank guarantees have been used for some time and today securitization is also a commonly used tool. Nevertheless credit derivatives exhibit some variations. First, they are closer to other financial derivatives as the credit derivatives trading takes place separately from the underlying asset. Second, credit derivatives are regularly traded. Third,

trading take place through standardized contracts prepared by international Swaps and derivatives Association (ISDA), an association of market participants.

A vital feature of credit derivative is that they allow for trading and diversification of risk. Credit derivatives allow traders to package the risk inherent in a loan into tradable components. Thus the interest rate risk is isolated via interest rate swaps, the credit risk via credit derivatives and any exchange risk if present is mitigated via foreign exchange derivatives. As the risks can now be shifted to those who are willing to bear them, it will lead to increased allocation efficiency in the economy.In the credit derivatives markets bank and securities brokers-dealers generally serveas the product dealer, acting as the buyer or seller in derivative trading with end users or other dealers. The major dealers as estimated by Fitch Ratings (2005) were MorganStanley, Deutsche Bank, Goldman Sachs, JP Morgan Chase and UBS. Endusers of credit derivatives include hedge funds, insurance companies, pension fund and mutual funds. The isolation of credit as an asset class has made it highly popular among the marketparticipants. Although it is difficult to assess the exact value of early trades the figureestimated for 1997 is in the region of USD 1801 billion, rising to USD 20.1 trillion in 2006. British Bankers Associations (BBA) estimates that the total notional value will be USD 33.1 trillion by the year 2008.





Global Credit Derivatives Market (In trillions of US Dollars)

highest at 33 percent followed by full Index trades at 30 percent, Tranched Index trades (8 percent) Synthetic CDOs at 16 percent and others contribute 13 percent of the total trade.

The report also points to the fact that the market share of single name CDS is the



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Where as the International Swaps and Derivatives Association's (ISDA) 2006 year endmarket survey of market the participants shows that credit derivatives market has grownincreasing from an estimated total notional amount of \$1 trillion outstanding nearly at yearend2001 to over \$34 trillion at yearend 2006 (see fig. 2). Part of this rapid growth hasbeen attributed to product innovation and an increasing number of participants, particularly market hedge funds. Despite its expansion, the credit derivative market is still muchsmaller than the OTC interest rate derivatives market. which notional had a total amountoutstanding of around \$286 trillion at year-end 2006.

Table 1: Credit Default Swaps Market Notional amounts outstanding at end June 2007

Notional	Notional	Total
Amount	Amount	
of	of	
Outstan	Outstan	
ding	ding	

	Bought	Sold	
Total CDS	32,978,8	32,917,1	32,580,
Contracts	16	50	424
Reporting	23,285,4	23,345,6	23,315,
Dealers	88	00	544
Banks and	4,854,74	4,737,29	9,592,0
Security	8	7	45
Firms			
Insurance and	2,43,638	87,821	3,31,45
FinancialInsti			9
tutions			
Others	4,133,41	4,326,40	8,459,8
	1	9	20
Non-	4,61,534	4,20,020	8,81,55
FinancialInsti			4
tutions			
Single-name		18,020,3	24,239,
instruments	18,542,9	26	326
	36		
Multi-name	14,435,8	14,896,8	18,340,
instruments	80	24	948

BIS semi annual survey report for end June 2007 (Table 1) shows that the total CDScontracts stand at 32,580,424 billion US Dollars, while the single-name instruments have registered a total notional value of 24,239,476 billion US Dollars. The reporting dealers at 23,315,544 billion

International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622 International Conference on Industrial Automation and Computing (ICIAC- 12-13th April 2014)

US dollars account for nearly 72 percentage of the total contracts. Other financial institutions account for the rest with banks and security firms being the major players at 9,592,045 billion US dollars. These values clearly point towards the role of market makers in efficient development of the derivatives market. As also the fact that banks as well as mutual funds, hedge funds etc are major sellers as buyers ofprotection well as in the international market. Single name instruments are at 24,239,476 billionUS dollars but multiple name instruments are growing and stand at 18,340,948 billion USdollars. It clearly points to the evolution of the credit risk management function and therole of single and multi-name instrument in helping institutions mitigate their credit risk.

Credit Derivative Instruments:

Olivier Prato (2002) classifies use of credit derivatives as:

a) Hedging instruments, which allow an institution to hedge its risk on a counter party and at the same time, meet its capital requirements without really affecting its existing commercial interests with the counter party.

b) Investment Instruments, which permit a participant to acquire, counter party risk without having to provide funding or enter into a commercial relationship with the counter party.

c) Trading instruments, designed to generate a short-term capital gain over the expected path of credit risk.

Broadly, these instruments can be divided into two categories. **Unfunded credit derivatives**, which are purely synthetic transactions that incur no financing cost for theprotection seller. And **funded credit derivatives** where the protection seller purchase as security or claim. **Unfunded credit derivatives** can be further subdivided into fourtypes of instruments: Credit Default Swaps (CDS): Where a protection buyer agrees to pay a regular fee/premium to the protection seller, which in turn agrees to compensate the first institution for losses on the underlying asset if the reference entity experiences a credit event during the contract period. A CDS carries a fee or premium that reflects the credit risk of the reference asset issuer and is usually quoted as a spread over a reference rate such as LIBOR to be paid either upfront, quarterly or half yearly. If no credit event occurs during the contract period the contract is terminated at the end of the period with the protection seller receiving premium/ fee for his services as cash settlement or physical settlement as specified in the contract.

Figure 3: Credit Default Swaps



III. DERIVATIVES IN INDIA:

Derivatives' trading in India was introduced after the promulgation of the securities law(amendment) ordinance, 1995, which withdrew the prohibition or options in securities. In1998 the Securities Exchange Board of India (SEBI) set up a group under the chairmanshipof Prof. J.R Varma to recommend measure for risk containment in derivative market inIndia. The report worked out the operational details of margining system, methodology forcharging initial margins, brokers net worth, deposit requirement and real time monetaryrequirements. The Securities Contract Regulation Act (SCRA) was amended in December1999 to include derivative within the ambit of 'securities' and the regulatory frameworkwas evolved for governing derivatives trading. In June 2000 derivatives tradingcommenced in India after SEBI granted the final approval to this effect.Indian forex and derivative markets have also seen activities over the years though byglobal standards it is still in infancy. exchange-traded its The derivatives turnover compares favorably with other emerging economies like Brazil, Russia and China (Table 2). Theannual turnover of traded contract in India stood at 411 millions of US dollars at the end of the first half of the year 2007; this is more than double the corresponding figure in 2006.

Survey of Literature

The literature on credit derivatives can be separated into three groups, namely academic research, publications by market participants, and studies carried out at central banks. Academic research is at a very nascent stage and concentrates on pricing issues as if they are traded in standardized market. Credit derivatives increasingly important play an and controversial role in financial markets. Commentators have lauded them for enabling banks to hedge credit risks while others have warned of hidden dangers and systemic risks. Institutions have both saved and lost fortunes using credit derivatives.7 Meanwhile, themarket for credit derivatives has grown from virtually nothing a decade ago \$45.46 trillionin mid 2007.8 The market for credit derivatives is now one of

the largest markets in theworld. David Mengle (2007) points out that a major source of credit derivatives growthsince 2004 has been index CDS, in which the reference entity is an index of as many as 125corporate entities. An index CDS offers protection on all entities in the index, and eachentity has an equal share of the notional amount. The two main indices are the CDX index, consisting of 125 North American investment grade firms, and the iTraxx index, consistingof 125 euro-based mainly investment grade. firms. In addition. there are indices for NorthAmerican sub-investment grade firms, for European firms that have been downgraded frominvestment grade and for regions such Japan and Asia excluding Average notionalamounts Japan. for individual deals range from \$10 million to \$20 million for North Americaninvestment grade credits, and are about €10 million for European investment grade credits;

Banks used credit derivatives to hedge approximately \$8 billion of risk associated with Enrondebt and \$10 billion of risk associated with WorldCom debt, thus avoiding massive losses whenthose two companies defaulted. Conversely, numerous companies have announced substantiallosses on credit derivatives. See, e.g., Frank Partnoy, Infectious Greed 390-91 (describingAmerican Express's \$826 million loss on CDOs).Sub-investment grade credits have notionals that average about half the amounts for investment grade (JP Morgan Chase 2006). Martin Scheicher (2005) has found that banks, investment funds, hedge funds, insurance companies and corporations are the main playersin the credit derivative market. The major incentives for trading credit derivates are mainlyeconomic and partially regulatory. Trading in credit derivatives are undertaken formanagement of economical capital, counter party risk management, credit linemanagement, and regulatory capital management investment and

diversification. The useof credit derivatives has facilitated the distribution of credit risk across a broader group of investors, which, enhances financial stability. In the past, banks generally warehousedcredit risk, seeking to provision against losses as the economy and the credit cycle evolved, often in a procyclical manner. Today, encouraged supervisors and shareholders, by banksincreasingly prefer to act as credit originators, and to transfer credit exposures, particularlyconcentrations, to others via the capital markets. In doing so, banks are more actively managing a variety of credit risks [See Standard & Poor's (2005); and Minton, Stulz, andWilliamson (2005)]. Research examining earlier credit market innovations such as loansales and securitizations has generally found that used opportunities banks have to diversifycredit risk exposures to increase lending (Cebenovan and Strahan 2004, Franke and Krahnen 2005, Goderis et al. 2006). Nicolo and Pellizon (2005) have investigated theproblem faced by banks that may not have enough capital to satisfy capital requirement for issuing new loans when outside investors do not know the true type of the protection buyerand therefore faces an adverse selection problem. They argue that credit derivativecontracts can be designed in order to solve the adverse selection problem; for it to happenbanks should use first-to-default basket contracts in which underlying assets havedifferent the maturities. On the other hand De Marzo and Duffe (1999) have shown thatpooling and shearing may be optimal when the protection buyer has superior information.If credit derivative trades are opaque, so that protection buyer cannot make an exantecommitment to a specific protection level, banks have a moral hazard incentive to hedgetheir exposure fully and therefore cease to monitor Morrison (2005). Hull and White (2000) analysed the effects of the assumed recovery rate on the CDS prices

order to focus on more complex,borrower specific risk that they have a particular advantage in assessing and monitoring. This, too, could bring important benefits, such as more focused monitoring of corporateborrowers. Bernadette A. Minton, René Stulz, and Rohan Williamson (2006) studied thelikelihood of hedging with credit derivatives being related to the type of loans a bankmakes. They found that banks are more likely to be net buyers of credit protection if theyhave more C&I loans in their portfolio and they originate foreignloans.However, denominated while statistically significant, the point estimates on the C&I loan variable implysmall economic increases in the likelihood of hedging with credit derivatives. Since theprices on CDS represent the costs of hedging, they should have a bearing upon bank's pricing of loans. And even when banks are not able to hedge a loan, credit derivatives maystill affect its price. Banks have started to calculate pseudo-prices for exposures on whichcredit derivatives are not traded. These prices now provide loan officers with an accuratebenchmark for the pricing of loans (e.g. Kealhofer, 2002, and The Banker. 2003). Hedgingtheories typically predict that firms with a greater probability of costly distress are morelikely to hedge Stulz (2003). (Bernadette A. Minton, René Stulz, and Rohan Williamson,2006) found that higher profitability is associated with a lower **19** | P a g e

and found that, if thesame recovery rate is used for estimating default probabilities

and for pricing CDS usingprobabilities, the

chosen recovery rate has little impact on

the implied CDS premium aslong as the

recovery rate is assumed to be lower than

50 percent of the bond's face value.Rajan

(2005) has suggested that the hedging

afforded

ordinary risks such as interest rate risk in

other risk techniques are transforming the banking

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Banks

probability of financialdistress, then the likelihood of а bank using credit derivatives to hedge will be lower formore profitable firm. The dynamic nature of the credit derivative market makes definitiveconclusions on the implications of credit derivatives difficult. This paper looks at twomajor implications, one related to financial stability and the other related with monetarypolicy issues.

IV. POTENTIAL IMPLICATIONS:

The dynamic nature of the financial market makes it difficult to arrive at definitive conclusions regarding the potential implications of the use of credit derivatives.Nevertheless, the introduction of credit derivatives can be expected to alter the risk existing in financial markets. From a macroeconomic perspective risk can be systemic and non systemic. Systemic risk can be reduced through diversification of portfolio but nonsystemic risk is immune to portfolio diversification as it is a function of the market in a country. The relationship between systemic risk and derivatives is important as the presence of systemic risk often forces the central bank to intervene in order to enhance the liquidity in the financial markets, Hunter and Marshall (1999) and Hunter and Smith (2002). The implications have been discussed from the perspective of financial stability of the underlying market and the affect on the monetary policy issues.

V. Implication for Financial Stability

This paper reviews the implication the credit default swaps markets have on the financial system and its stability. Credit risk management is a major area of concern for financial stability. Historically banks preferred to warehouse credit risk, seeking to provision against losses as the economy and credit cycles evolve. Due to various factors banks today prefer to originate credit and transfer credit exposures. This helps them to enhance their profitability at the same time optimize their capital base. As the transfer of risk shift credit exposures from banks to investor (e.g. Insurance companies, mutual funds, hedge funds etc.), are better positioned to hold or trade these risks. The desire to transfer credit risk creates a very dynamic primary market for them but often due to the desire of the investors to buy and hold, the secondary market liquidity might suffer. The risk warehoused on the banks balance sheet often lead to high performance volatility and failure during downturn. Such risks impact the financial system and its stability adversely. Internationally, empirical studies have found that smaller banks, owing to their relatively less liquid balance sheet, have also suffered during stress periods, and have been a significant factor in the broader transmission of shock points out. Kashyap& Stein (2000)found that assessing the amount of risk transferred through credit derivative instruments raises methodological challenges. An indirect measure of the amount of risk transferred via a portfolio swap is the notional size of the portfolio of underlying credits that would fully hedge the exposure (i.e. the "delta-adjusted" exposure)10. The amount of economic risk transferred is more than five times greater than the notional value of the swap. [Gibson (2004)]. JP Morgan and Chase has estimated that delta adjusted volume for 2005 was on average about 17 times greater than the reported notional value of the trance. The implication is that portfolio swaps may have a greater impact on dispersing risk than indicated by notional transaction values. In spite of all this information the question regarding reliability of the credit risk mitigation that banks achieve through the transfer of credit risk still remains. A study by J.P Morgan (2001) points to the fact that credit derivatives proved successful in the case of the defaults of Swissair and Rail track. In the case of Enron ISDA observed that while 800 contracts with an aggregate notional amount of \$8 billion were outstanding, the settlement of open contracts proceeded without major difficulties (ISDA 2002). Bank of England further notes that there were no major disruptions in the CDS market as a result of the Enron bankruptcy. This point towards the positive effect of credit derivatives in mitigation of risk but the full effectiveness of these methods cannot be measured in the absence of substantial data on the affect for potential risk takers. Another major issue is the lack of motivation for the banks to effectively screen borrowers, as they retain no exposures to their loan portfolios and its associated risks. A systematic deterioration in lending and collateral standards would of course entail losses greater than historical experience of defaults and loss-givendefault rates would indicate.

Monetary Policy Issues:

The effect of credit risk transfer financial system on the within the transmission mechanism of monetary policy is particularly interesting. Derivatives make market much more perfect and thus it can influence monetary policy actions (Vrolijk, 1997). Financial innovation influences the both the structure and behaviour of the central bank as the developments in the financial markets often influence the practice of monetary theory and policy. The classical channels of modern monetary policy are credit and banks. The credit channel gains its influence due to market imperfections, either on the information side or the money side; use of derivatives gradually reduces its importance. Credit can be substituted by derivatives as shown by Fender (2000) and Gorton and Rosen (1995). The role of monetary authority as the lender of last resort has been tested by situations like the Long Term Capital Management (LTCM) in the United States and the more recent sub-prime crisis in the world financial

System, as it had to intervene as a counter party to avoid a credit crunch. While economists like Kuttner and Mosser (2002) argue that the central role of banking systems in the transmission of monetary policy is under threat as, the transmission mechanism have changed due to financial innovations like growth of securitization, shifts between sources of finance for financing residential investment, or changes in the strength of wealth affects. The effect of banks assuming a role in originating, Pooling and distributing credit risk outside the banking system on the transmission mechanism is very relevant. On the other hand the recent sub prime crises has forced central banks to come out with a series of actions to counter the credit squeeze, which has imposed serious risks on the US economy in particular and the economy in general. The G-20 US Conference of Central Banks held at Cape town decided to offer liquidity assistance to various banks, following a new procedure, viz. auction of funds at rates of interest that the bankers are willing to offer. This is an important policy decision, because banks are short of accumulation of collateral of high quality, especially in the aftermath of sub-prime crisis. Thus although it can be argued that the central banks role is diminishing in the monetary policy transmission still it is customary to expect central banks to become providers of liquidity even when the crisis is brought about by errors of speculative behaviour on the part of investment bankers. Still it is interesting to note that in most international economies securitization of bank loans is booming, and this is influencing monetary policy. Securitization which allows banks to transfer a substantial part of credit risk and reduce their capital requirement, thus allowing for further increase in loans supplied. As research at Bank of Italy and ECB point out the use of securitization

markets. The LTCM crisis posed a liquidity problem for the US Federal Reserve

tends to reduce the impact of monetary policy changes. Estrella (2001 &2002) concludes that securitization largely affect channels that are not directly related to interest rate, such as bank lending or credit channels. Credit derivatives can also impact the very fundamental information content on which the monetary policies will be based. As banks transfer default risk outside their balance sheet to protection sellers the figures related to banks actual credit exposure will not be accurate and consequently the inputs used for analysis of monetary policy will also be less than accurate. The role of derivatives on financial markets is not always disruptive as they can help to increase market efficiency provided the investment bankers look at it as a risk mitigator rather than a tool for increasing high risk profits through dubious speculative investments..

VI. IMPLICATION FOR INDIA

Credit derivatives are at a very nascent stage in India. As previously discussed in May 2007 the Reserve Bank of India released discussion paper on introduction of credit default swaps in India. To begin with the proposal is to allow only single entity plain vanilla CDS. While the benefits are many, recent experiences have shown the need to be alert to the downside of credit derivatives. Systemic factors have to be regulated in order to avoid crisis like the subprime crisis witnessed in the US markets. Provisions should be made for the fact that the counter parties themselves will be risky and as such banks may be forced to allocate additional capital maintenance. The selection of counter parties and their monitoring process should be clearly defined. Similarly the definition of 'Credit Event' should be clearly defined in order to avoid any confusion. India specific aspects like restructuring of loan and their impact on CDS should be assessed. Credit Event as defined by ISDA may need some amount

of modification to suit Indian situations. Similarly the bankruptcy law as practiced internationally and in India is not always compatible; the Indian bankruptcy norms should be updated to reflect international trends. A bankruptcy code delivering ex-post outcomes, efficient specially designed for large projects, is urgently needed. To have an efficient market for CDS it is important that there are a large number of market makers. In the absence of large numbers the market will be very unstable and right price realizations will be difficult. To this end insurance companies and mutual funds should be allowed to enter the credit derivatives markets. Research has shown that CDS could lead to laxity on the part of the banks in assessing the credit worthiness of borrowersit can lead to severe implications for the financial system hence a scientific risk assessment methodology should be developed and adopted by the banks as well as the regulator. There is a need to study the impact of the additional liquidity created in the system and how it affects the asset prices and general inflationary trend. Credit Derivatives can help to free up capital but it has to be harnessed in an efficient manner for the benefit of the Indian Economy.

VII. CONCLUSIONS:

Credit derivative market will help to improve financial stability by facilitating the dispersion of credit risks. It allows dispersion of risk to a larger set of investors. As such it insulates the financial institutions and banks from credit shocks or at least help, to reduce the impact of the shock. Concerns have been raised that credit derivatives spreads the risk so wide that it may not always be possible to track them in the financial system. This might affect the ultimate stability, although most evidence as of now point's against it. It is argued that the ownership reduces the quantum of risk for each participant and makes it easier to absorb unless otherwise International Journal of Engineering Research and Applications (IJERA) ISSN: 2248-9622 International Conference on Industrial Automation and Computing (ICIAC- 12-13th April 2014)

the participants are over exposed to highrisk instruments.

One major area of concern among regulators is the backlog of unconfirmed trades, resulting in part from under investments in the back office capacity by major dealers. In light of these ISDA has streamline novations proposed of (reassigning trades) protocol and the industry has agreed to cooperate. In India Reserve bank of India has proposed to make cash settlement in single name CDS. This should help improve the settlement process. The question of effectiveness of credit risk transfer still exists. ISDA has been tracking outstanding notional amounts of credit derivatives for several years. However notional amounts are not sufficient to measure the economic risk transferred. As discussed earlier deltaadjusted volume is a better way to measure economic risk transfer for portfolio swaps. Regulators have to ensure that recipient of credit risk have the risk management system and skill needed to manage such exposures. In emerging markets like India the issue of institutional shortcomings like bankruptcy codes, creditor rights, clearing and settlement agencies can impede the growth of credit derivative market.

The effect of risk transfer on the monetary mechanism policy transmission is significant as evidenced from research particularly in the US markets. It has been found that it reduces the impact of the monetary transmission effect as the importance of interest rates reduces and the availability of liquidity and credit volumes become determining factors. There is a great deal of uncertainty about how critical variables - including credit aggregates, consumption, fixed investment. and inflation – will behave under the new scenario. Hence further studies on this are vital for policy makers to establish action plan to deal with it.

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