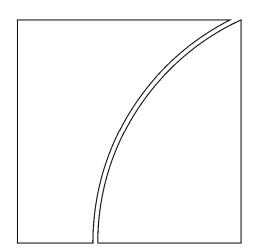


BANK FOR INTERNATIONAL SETTLEMENTS

Monetary and Economic Department

OTC derivatives market activity in the first half of 2008



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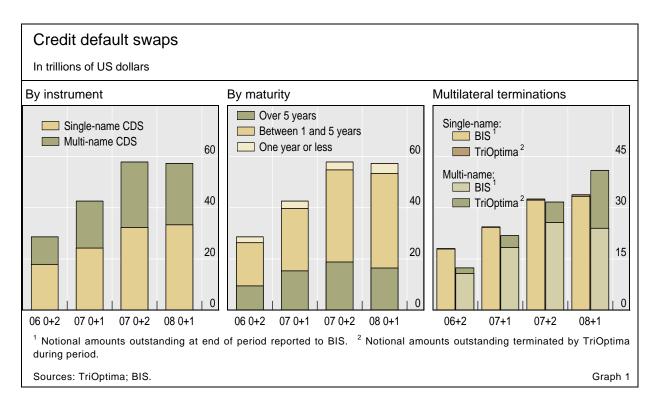
I. Market developments in the first half of 2008

The notional amounts outstanding of over-the-counter (OTC) derivatives continued to expand in the first half of 2008. Notional amounts of all types of OTC contracts stood at \$683.7 trillion at the end of June, 15% higher than six months before (Table 1). Multilateral terminations of outstanding contracts resulted in the first ever decline of 1% in the volume of outstanding credit default swaps (CDS) since the first publication of CDS statistics in December 2004. The average growth rate for outstanding CDS contracts over the last three years has been 45%. In contrast to CDS markets, markets for interest rate derivatives and FX derivatives both recorded significant growth. Open positions in interest rate derivatives contracts rose by 17%, while those in FX contracts expanded by 12%. Gross market values, which measure the cost of replacing all existing contracts and are thus a better gauge of market risk than notional amounts, increased by 29% to \$20.4 trillion at the end of June 2008.

1. CDS volumes decline

For the first period ever since publication of the statistics began in December 2004, the notional amounts outstanding of CDS contracts saw a decline of 1% compared with the notional amounts outstanding at the end of 2007 (Graph 1 and Table 4). Despite the decline in outstanding volumes, the gross market value for CDS contracts increased by 58%. Gross market values rose for both single- and multi-name contracts.

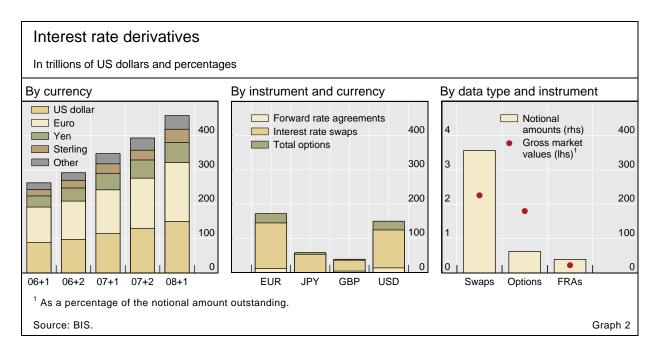
While single-name CDS contracts grew by 3% to \$33.3 trillion, the outstanding volume of multiname CDS contracts, a category that includes CDS indices and CDS index tranches, declined for the first time since publication began in December 2004. The outstanding amount of multi-name CDS contracts decreased by 6.5% to \$24.0 trillion in the first half of 2008.



The decline to a large extent reflects early agreed terminations or netting of outstanding CDS contracts. Multilateral terminations have had a substantial effect on the size of the CDS market in recent years.¹ This trend continued with increased strength in the first half of 2008, when contracts totalling \$17.4 trillion were terminated, mainly in the multi-name segment. This reduced the rate of increase in the outstanding amounts by nearly 30 percentage points.

2. Significant growth in interest rate products

Growth in the notional amounts outstanding of OTC interest rate derivatives increased in the first half of 2008 after an average rate of increase in the second half of 2007. Notional amounts outstanding of these instruments reached \$458.3 trillion at the end of June 2008, 17% higher than six months previously (Graph 2 and Table 3). Gross market values of OTC interest rate derivatives grew by 29% to \$9.3 trillion, driven primarily by interest rate swaps, which constitute by far the largest market segment.



The notional amounts outstanding of interest rate swaps increased by 15% to \$356.8 trillion, while the gross market value of these swaps rose by 30% to \$8.1 trillion in the first half of 2008. Outstanding volumes of option contracts expanded by a moderate 9% to \$62.2 trillion, while gross market values went up by 17% to \$1.1 trillion. In contrast to the moderate growth in options, there was very high growth in both the outstanding amounts and gross market values of forward rate agreements (FRAs). The money market turmoil in the period resulted in a 48% increase in the outstanding volume of FRAs to \$39.4 trillion, while their gross market value rose by 114% to \$88 billion in the period. The rapid growth in outstanding FRAs was visible for all major currencies except the Australian dollar, where growth was concentrated in options (98%) and interest rate swaps (53%).

¹ The private firm TriOptima has been offering multilateral termination services to OTC derivatives dealers since the beginning of 2003, initially for interest rate swaps and subsequently for CDS. A termination cycle consists of two steps. Dealers first provide TriOptima with contract-by-contract information on their derivatives positions. The firm then checks whether each individual contract is reported by both counterparties with identical terms. In a second step, TriOptima computes a set of bilateral contracts between participants that provides the same net exposures but lower gross exposures.

While growth remained strong in all currencies, positions in Australian dollars (50%), sterling (36%) and Swiss francs (28%) increased at notably higher rates than those in euro- and dollar-denominated contracts (18% and 15%, respectively). However, at \$2.5 trillion, \$38.6 trillion and \$5.2 trillion, respectively, the Australian dollar, sterling and Swiss franc segments remained considerably smaller than those of the euro and the US dollar (\$171.9 trillion and \$149.8 trillion, respectively).

3. Robust activity in foreign exchange derivatives

Notional amounts of foreign exchange derivatives increased by 12% to \$63.0 trillion, while gross market values rose by 25% to \$2.3 trillion (Table 2). Growth in the notional amounts of FX options and currency swaps (15% and 14%, respectively) outpaced the change in overall volumes. Forwards, which account for roughly half of total OTC FX derivatives when measured in terms of notional amounts, grew slightly less than the market total. There were no significant changes in the currency composition of FX derivatives. The dollar remained the most important vehicle currency, well ahead of the euro. Eighty-three per cent of all contracts (measured by notional amounts) had one leg denominated in US dollars, compared to 41% for the euro and 22% for the yen.

4. Growth in equity derivatives

Notional amounts outstanding of OTC equity derivatives increased by 20% in the first half of 2008, reversing a 1% decline in the second half of 2007. Notional amounts of OTC equity contracts stood at \$10.2 trillion at the end of June 2008, more than half of which was accounted for by contracts written on European stocks.

The OTC equity derivatives market is dominated by options, which account for around three quarters of all contracts in terms of notional amounts and gross market values. Growth in outstanding positions in equity derivatives was more pronounced for the medium- and longer-term maturities, which grew by 31% and 18%, respectively.

5. Strong growth in commodity derivatives

The market for OTC commodity derivatives showed robust activity, with notional amounts increasing by 56% in the first half of 2008 to reach \$13 trillion at the end of June (Table 1). This was largely due to strong growth in non-gold contracts (which increased to \$12.6 trillion). Forwards and swaps in these contracts increased by 49% to \$7.6 trillion, and option volume by 81% to \$5 trillion. Growth in gold contracts slowed to 9% (after rising by 40% in the second half of 2007). Gross market values of commodity contracts in total increased by 16% to \$2.2 trillion.

6. Market concentration

Herfindahl concentration indices calculated on the basis of responses from individual dealers continue to show different degrees of concentration across instruments, currency and counterparties. Concentration in options on Canadian dollar interest rates rose to the highest level recorded so far (Table 6a).

Concentration in foreign exchange options also rose, but remained at a comparatively low level (Table 6b).

In the equity segment, a fairly general decline in concentration was observed for most regions. The highest concentration continues to be observed in equity-linked contracts on Latin America (Table 6c). Concentration of foreign exchange derivatives contracts between reporters also remained highest for Latin America (Table 6f).

II. Statistical notes

1. Coverage

As of end-June 1998, the central banks of the G10 countries introduced the regular collection of statistics on derivatives markets through reporting by leading global dealers. The objective of the reporting exercise is to obtain reasonably comprehensive and internationally consistent information on the size and structure of over-the-counter (OTC) derivatives markets.

The semiannual OTC derivatives market statistics (Tables 1 to 3) provide data on notional amounts and gross market values outstanding of forwards, swaps and options of foreign exchange, interest rate, equity, commodity and credit derivatives. All published figures are adjusted for doublecounting resulting from positions between reporting institutions. Notional amounts outstanding are adjusted by halving positions vis-à-vis other reporting dealers. Gross market values are adjusted by adding the total gross positive market value of contracts to the gross negative market value of contracts with non-reporting counterparties only.

As of end-June 2004, the BIS started releasing statistics on concentration measures in the context of the semiannual OTC derivatives statistics. The central banks of the G10 countries provided the BIS with data back to June 1998, including concentration measures for foreign exchange, interest rate and equity-linked derivatives (Tables 6a to 6i).

In response to a request made by the Committee on the Global Financial System (CGFS), as of end-December 2004 the BIS started releasing semiannual statistics on credit default swaps (CDS) (Tables 4 and 5), which include notional amounts outstanding and gross market values for singleand multi-name instruments. As of December 2005, additional information by counterparty, sector and rating has been made available.

2. Definitions

2.1 Types of data collected

Notional amounts outstanding: Nominal or notional amounts outstanding are defined as the gross nominal or notional value of all deals concluded and not yet settled on the reporting date. For contracts with *variable nominal or notional principal amounts*, the basis for reporting is the nominal or notional principal amounts.

Nominal or notional amounts outstanding provide a measure of market size and a reference from which contractual payments are determined in derivatives markets. However, such amounts are generally not those truly at risk. The amounts at risk in derivatives contracts are a function of the price level and/or volatility of the financial reference index used in the determination of contract payments, the duration and liquidity of contracts, and the creditworthiness of counterparties. They are also a function of whether an exchange of notional principal takes place between counterparties. Gross market values provide a more accurate measure of the scale of financial risk transfer taking place in derivatives markets.

Gross positive and negative market values: Gross market values are defined as the sums of the absolute values of all open contracts with either positive or negative replacement values evaluated at market prices prevailing on the reporting date. Thus, the gross positive market value of a dealer's outstanding contracts is the sum of the replacement values of all contracts that are in a current gain position to the reporter at current market prices (and therefore, if they were settled immediately, would represent claims on counterparties). The gross negative market value is the sum of the values of all contracts that have a negative value on the reporting date (ie those that are in a current loss position and therefore, if they were settled immediately, would represent liabilities of the dealer to its counterparties).

The term "gross" is used to indicate that contracts with positive and negative replacement values with the same counterparty are not netted. Nor are the sums of positive and negative contract

values within a market risk category such as foreign exchange contracts, interest rate contracts, equities and commodities set off against one another.

As stated above, gross market values supply information about the potential scale of market risk in derivatives transactions. Furthermore, gross market value at current market prices provides a measure of economic significance that is readily comparable across markets and products.

Current credit exposure and liabilities: Current credit exposure represents the gross value of contracts that have a positive market value after taking account of legally enforceable bilateral netting agreements. Liabilities arising from OTC derivatives contracts represent the gross value of contracts that have a negative market value taking account of legally enforceable bilateral netting agreements.

Herfindahl index: The Herfindahl index represents a measure of market concentration and is defined as the sum of the squares of the market shares of each individual institution. It ranges from 0 to 10,000. The more concentrated the market, the higher the measure becomes. If the market is fully concentrated (only one institution), the measure will have the (maximum) value of 10,000.

2.2 Instrument types

Forward contracts: Forward contracts represent agreements for delayed delivery of financial instruments or commodities in which the buyer agrees to purchase and the seller agrees to deliver, at a specified future date, a specified instrument or commodity at a specified price or yield. Forward contracts are generally not traded on organised exchanges and their contractual terms are not standardised. The reporting exercise also includes transactions where only the difference between the contracted forward outright rate and the prevailing spot rate is settled at maturity, such as non-deliverable forwards (ie forwards which do not require physical delivery of a non-convertible currency) and other contracts for differences.

Swaps: Swaps are transactions in which two parties agree to exchange payment streams based on a specified notional amount for a specified period. Forward-starting swap contracts are reported as swaps.

Options: Option contracts convey either the right or the obligation, depending upon whether the reporting institution is the purchaser or the writer, respectively, to buy or sell a financial instrument or commodity at a specified price up to a specified future date.

2.3 Specific definitions of CDS

Single-name CDS: A credit derivative where the reference entity is a single name.

Multi-name CDS: A contract where the reference entity is more than one name, as in portfolio or basket credit default swaps or CDS indices. A basket credit default swap is a CDS where the credit event is the default of some combination of the credits in a specified basket of credits.

3. Data availability

Detailed tables on OTC derivatives and concentration measures from end-June 1998 are available, together with their main breakdowns, on the BIS website under www.bis.org/statistics/derstats.htm.

4. Next publication dates

The next OTC derivatives statistics, covering the second half of 2008, will be released no later than **29 May 2009**.

III. Statistical tables

Table 1

The global OTC derivatives market¹

Amounts outstanding in billions of US dollars

	Notio	nal amour	nts outsta	inding	G	iross mar	ket value	s
	Dec 2006	Jun 2007	Dec 2007	Jun 2008	Dec 2006	Jun 2007	Dec 2007	Jun 2008
GRAND TOTAL (including CDS)	414,845	516,407	595,341	683,725	9,691	11,140	15,813	20,353
A. Foreign exchange contracts	40,271	48,645	56,238	62,983	1,266	1,345	1,807	2,262
Outright forwards and forex swaps	19,882	24,530	29,144	31,966	469	492	675	802
Currency swaps	10,792	12,312	14,347	16,307	601	619	817	1,071
Options	9,597	11,804	12,748	14,710	196	235	315	388
Memo: Exchange-traded contracts ²	240	303	291	367				
B. Interest rate contracts ³	291,582	347,312	393,138	458,304	4,826	6,063	7,177	9,263
FRAs	18,668	22,809	26,599	39,370	32	43	41	88
Swaps	229,693	272,216	309,588	356,772	4,163	5,321	6,183	8,056
Options	43,221	52,288	56,951	62,162	631	700	953	1,120
Memo: Exchange-traded contracts ²	62,593	86,150	71,051	73,790				
C. Equity-linked contracts	7,488	8,590	8,469	10,177	853	1,116	1,142	1,146
Forwards and swaps	1,767	2,470	2,233	2,657	166	240	239	283
Options	5,720	6,119	6,236	7,520	686	876	903	863
Memo: Exchange-traded contracts ²	7,611	10,249	9,233	10,130				
D. Commodity contracts ⁴	7,115	7,567	8,455	13,229	667	636	1,899	2,209
Gold	640	426	595	649	56	47	70	68
Other	6,475	7,141	7,861	12,580	611	589	1,829	2,142
Forwards and swaps	2,813	3,447	5,085	7,561				
Options	3,663	3,694	2,776	5,019				
E. Credit default swaps ⁵	28,650	42,580	57,894	57,325	470	721	2,002	3,172
Single-name instruments	17,879	24,239	32,246	33,334	278	406	1,143	1,889
Multi-name instruments	10,771	18,341	25,648	23,991	192	315	859	1,283
F. Unallocated ⁶	39,740	61,713	71,146	81,708	1,609	1,259	1,788	2,301
GROSS CREDIT EXPOSURE ⁷					2,036	2,672	3,256	3,859
Memo: Exchange-traded contracts ^{2, 8}	70,444	96,703	80,576	84,287				

¹ All figures are adjusted for double-counting. Notional amounts outstanding have been adjusted by halving positions vis-à-vis other reporting dealers. Gross market values have been calculated as the sum of the total gross positive market value of contracts and the absolute value of the gross negative market value of contracts with non-reporting counterparties. ² Sources: FOW TRADEdata; Futures Industry Association; various futures and options exchanges. ³ Single currency contracts only. ⁴ Adjustments for double-counting partly estimated. ⁵ See Tables 4 and 5. ⁶ Includes foreign exchange, interest rate, equity, commodity and credit derivatives of non-reporting institutions, based on the latest Triennial Central Bank Survey of Foreign Exchange and Derivatives Market Activity, in 2007. ⁷ Gross market values after taking into account legally enforceable bilateral netting agreements. Excludes CDS contracts for all countries except the United States. ⁸ Excludes commodity contracts.

The global OTC foreign exchange derivatives market^{1, 2}

	Notio	onal amour	nts outstan	ding		Gross mar	ket values	
	Dec 2006	Jun 2007	Dec 2007	Jun 2008	Dec 2006	Jun 2007	Dec 2007	Jun 2008
Total contracts	40,271	48,645	56,238	62,983	1,266	1,345	1,807	2,262
With reporting dealers	15,532	19,173	21,334	24,845	438	455	594	782
With other financial institutions	16,023	19,144	24,357	26,775	521	557	806	995
With non-financial customers	8,716	10,329	10,548	11,362	307	333	407	484
Up to 1 year ³	30,270	36,950	40,316	43,639				
Between 1 and 5 years ³	6,702	8,090	8,553	10,701				
Over 5 years ³	3,299	3,606	7,370	8,643				
US dollar	33,755	40,513	46,947	52,152	1,069	1,112	1,471	1,838
Euro	16,037	18,280	21,806	25,963	509	455	790	1,010
Yen	9,490	10,602	12,857	13,616	325	389	371	433
Sterling	6,135	7,770	7,979	8,377	197	174	260	280
Swiss franc	2,311	3,056	3,662	3,964	49	54	91	119
Canadian dollar	1,768	2,239	2,404	2,226	68	106	134	93
Swedish krona	1,220	1,390	1,525	1,589	33	23	29	30
Other	9,825	13,440	15,297	18,078	282	377	470	721
<i>Memo: Exchange-</i> traded contracts ⁴	240	303	291	367				

Amounts outstanding in billions of US dollars

¹ See footnote 1 to Table 1. ² Counting both currency sides of every foreign exchange transaction means that the currency breakdown sums to 200% of the aggregate. ³ Residual maturity. ⁴ See footnote 2 to Table 1.

The global OTC interest rate derivatives market¹

	Notie	onal amoui	nts outstan	ding		Gross mar	ket values	
	Dec 2006	Jun 2007	Dec 2007	Jun 2008	Dec 2006	Jun 2007	Dec 2007	Jun 2008
Total contracts	291,582	347,312	393,138	458,304	4,826	6,063	7,177	9,263
With reporting dealers	127,432	148,555	157,245	188,982	1,973	2,375	2,774	3,554
With other financial institutions	125,708	153,370	193,107	223,023	2,223	2,946	3,786	4,965
With non-financial customers	38,441	45,387	42,786	46,299	630	742	617	745
Up to 1 year ²	104,098	132,402	127,601	153,181				
Between 1 and 5 years ²	110,314	125,700	134,713	150,096				
Over 5 years ²	77,170	89,210	130,824	155,028				
US dollar	97,430	114,371	129,756	149,813	1,661	1,851	3,219	3,601
Euro	111,791	127,648	146,082	171,877	2,300	2,846	2,688	3,910
Yen	38,113	48,035	53,099	58,056	297	364	401	380
Sterling	22,238	27,676	28,390	38,619	311	627	430	684
Swiss franc	3,543	3,921	4,101	5,253	34	52	42	71
Canadian dollar	2,125	2,828	3,014	3,286	31	43	37	60
Swedish krona	3,594	5,155	5,176	6,454	32	48	43	73
Other	12,747	17,678	23,520	24,946	160	232	317	484
Memo: Exchange- traded contracts ³	62,593	86,150	71,051	73,790				
¹ See footnote 1 to Tab	le 1. ² Res	idual maturity	v. ³ See foo	tnote 2 to Tal	ble 1.			

Amounts outstanding in billions of US dollars

Credit default swap market¹

Amounts outstanding in billions of US dollars

			1	Notional a	mounts ou	utstanding	9			Gros	s market va	lues
		June 2007		Dee	cember 20	07		June 2008	3	Jun	Dec	Jun
	Bought	Sold	Total	Bought	Sold	Total	Bought	Sold	Total	2007	2007	2008
Total CDS contracts	32,979	32,917	42,580	44,298	45,626	57,894	45,853	44,555	57,325	721	2,002	3,172
With reporting dealers	23,285	23,346	23,316	31,387	32,673	32,030	33,309	32,858	33,083	358	938	1,678
With other financial institutions	9,232	9,152	18,383	12,513	12,661	25,174	12,010	11,287	23,297	336	1,011	1,430
Banks and securities firms	4,855	4,737	9,592	6,843	7,163	14,006	6,985	6,698	13,683	148	489	737
Insurance firms	244	88	331	328	176	504	279	119	398	3	19	26
Other	4,133	4,326	8,460	5,342	5,322	10,664	4,746	4,469	9,215	185	504	667
With non-financial customers	462	420	882	399	291	690	534	410	944	27	52	65
Up to 1 year	2,338	2,244	2,867	2,575	2,482	3,130	3,327	3,092	3,968	_	_	_
Between 1 and 5 years	18,953	19,111	24,353	27,640	28,693	35,954	29,538	29,145	36,923	-	_	_
Over 5 years	11,687	11,562	15,361	14,084	14,451	18,810	12,988	12,318	16,433	-	-	-
Single-name instruments ²	18,543	18,020	24,239	24,554	24,740	32,246	26,610	25,812	33,334	406	1,143	1,889
Multi-name instruments	14,436	14,897	18,341	19,745	20,885	25,648	19,243	18,743	23,991	315	859	1,283

¹ Data on total CDS and gross market values are shown on a net basis. Data on CDS bought and sold are shown on a gross basis, ie not adjusted for inter-dealer doublecounting. ² See Table 5.

Credit default swap market¹

Single-name instruments

Amounts outstanding in billions of US dollars

			N		Gross	s market va	alues					
	J	une 2007	,	Dec	ember 20	007	J	une 2008	6	Jun	Dec	Jun
	Bought	Sold	Total	Bought	Sold	Total	Bought	Sold	Total	2007	2007	2008
Total single-name instruments	18,543	18,020	24,239	24,554	24,740	32,246	26,610	25,812	33,334	406	1,143	1,889
With reporting dealers	12,555	12,092	12,324	16,916	17,181	17,049	19,139	19,037	19,088	198	485	959
With other financial institutions	5,650	5,599	11,249	7,365	7,340	14,706	7,057	6,589	13,646	196	634	893
Banks and securities firms	2,877	2,641	5,518	3,954	3,932	7,886	4,070	3,745	7,814	84	320	451
Insurance firms	116	52	168	173	107	280	146	96	242	2	13	18
Other	2,657	2,906	5,563	3,238	3,301	6,540	2,841	2,749	5,590	111	301	425
With non-financial customers	338	329	667	272	219	492	415	185	600	12	24	36
Up to 1 year	1,530	1,408	1,893	1,590	1,512	2,003	2,294	2,150	2,786	_	_	_
Between 1 and 5 years	11,200	11,179	14,566	16,033	16,397	20,896	17,511	17,275	21,812	-	_	-
Over 5 years	5,812	5,432	7,780	6,931	6,831	9,346	6,805	6,388	8,736	-	-	-
Sovereigns	1,276	995	1,490	1,410	1,390	1,798	1,659	1,641	2,177	_	_	_
Non-sovereigns	17,322	17,026	22,778	23,144	23,350	30,448	24,951	24,171	31,157	-	-	-
Investment grade	11,934	11,806	15,685	15,249	16,071	20,659	17,380	17,218	22,155	_	_	_
Below investment grade	2,417	2,427	3,248	3,751	3,716	5,011	5,535	5,343	6,756	-	-	-
Non-rated	4,192	3,788	5,307	5,553	4,954	6,576	3,696	3,251	4,423	-	-	-

¹ Data on total CDS and gross market values are shown on a net basis. Data on CDS bought and sold are shown on a gross basis, ie not adjusted for inter-dealer doublecounting. OTC derivatives market activity, first half 2008

	Table 6a Herfindahl indices for all OTC interest rate derivatives contracts																	
Currency	Contract type	Jun 2000	Dec 2000	Jun 2001	Dec 2001	Jun 2002	Dec 2002	Jun 2003	Dec 2003	Jun 2004	Dec 2004	Jun 2005	Dec 2005	Jun 2006	Dec 2006	Jun 2007	Dec 2007	Jun 2008
CAD	Forward rate agreements Interest rate swaps Options	1,418 856 1,458	876	1,347 874 1,621	1,044	1,044	1,818 1,047 2,112	1,530 1,041 2,161	1,522 1,039 2,226	1,965 1,048 2,313	1,741 973 2,697	1,659 1,000 2,955	1,649 1,017 3,052	1,670 1,018 2,703		1,244 1,016 2,712	1,122 985 2,962	1,405 976 3,314
CHF	Forward rate agreements Interest rate swaps Options	1,421 655 1,432	1,274 688 2,439	1,264 678 1,239	788	824	1,218 846 1,693	1,264 896 1,684	1,269 852 1,616	1,169 797 1,796	1,222 807 1,292	1,158 936 1,508	1,630 1,015 1,584	1,698 1,080 1,398	1,149	2,043 1,150 1,045	1,162	1,712 1,336 899
EUR	Forward rate agreements Interest rate swaps Options	851 511 530	1,107 500 565	936 486 559	524		571 492 546	539 481 608	639 478 591	670 473 675	597 481 607	631 479 567	667 484 539	690 503 534		812 623 604	709 596 596	648 562 594
GBP	Forward rate agreements Interest rate swaps Options	614 429 677	728 448 662	693 438 648	476		610 515 615	607 544 643	1,095 565 666	930 594 747	923 578 1,452	855 614 1,288	1,210 661 905	1,083 707 958	1,024 692 916	1,120 736 806	1,066 765 777	1,055 830 824
JPY	Forward rate agreements Interest rate swaps Options	1,014 545 715	1,109 585 791	1,937 613 708	706	779	1,942 790 1,624	1,972 806 1,223	1,647 744 1,065	1,308 728 978	1,852 693 739		3,025 635 793	3,280 613 824		2,569 675 799	2,302 673 745	1,981 660 938
SEK	Forward rate agreements Interest rate swaps Options	936 586 1,036	957 640 1,076	1,125 592 989	608		886 569 1,224	839 561 1,174	947 570 1,230	965 583 1,137	861 583 995	811 564 1,077	767 571 1,259	847 586 1,431		1,096 628 1,945	1,242 660 2,337	1,152 677 1,904
USD	Forward rate agreements Interest rate swaps Options	755 500 782	879 528 819	888 529 764	730	666	1,042 682 1,038	901 701 961	786 672 877	725 626 847	645 673 767	652 650 756	690 691 762	788 678 816	679	850 686 865	967 698 982	881 729 1,020

			Herfi	ndahl ind	ices for a	-	able 6b oreign ex	change o	lerivative	s contra	cts						
Contract type	Jun 2000	Dec 2000	Jun 2001	Dec 2001	Jun 2002	Dec 2002	Jun 2003	Dec 2003	Jun 2004	Dec 2004	Jun 2005	Dec 2005	Jun 2006	Dec 2006	Jun 2007	Dec 2007	Jun 2008
Forwards, forex swaps and currency swaps Options	423 507	_			427 518	-		. = 0					-	481 567	486 558		

 Table 6c

 Herfindahl indices for all OTC equity-linked derivatives contracts

Region	Contract type	Jun 2000	Dec 2000	Jun 2001	Dec 2001	Jun 2002	Dec 2002	Jun 2003	Dec 2003	Jun 2004	Dec 2004	Jun 2005	Dec 2005	Jun 2006	Dec 2006	Jun 2007	Dec 2007	Jun 2008
Europe	Forwards and swaps Options	618 657	750 779	693 891	733 880	770 952	762 791	768 985	698 1,013	611 1,195	631 659	598 662	652 615	616 691	690 780	785 722		713 712
Japan	Forwards and swaps Options	2,501 1,018	2,043 1,386		2,005 841	,	1,946 1,132		3,106 1,718	1,984 2,553		2,056 893	2,292 3,953		1,205 3,078	1,073 2,189	,	,
Latin America	Forwards and swaps Options	6,881 6,776	5,015 6,703	5,163 4,353		,	,	8,839 9,332	3,808 6,432		,	,			7,199 3,902	7,876 3,735	,	
Other Asia	Forwards and swaps Options	5,119 1,586	1,663 1,600	1,631 1,188	5,294 1,447	,	1,677 1,675	3,197 1,894	2,233 5,464	2,010 5,435		1,355 1,177	1,334 5,566		1,066 5,615	1,343 1,098		1,180 1,249
United States	Forwards and swaps Options	1,088 749		1,048 663			1,037 665	964 793	1,040 1,031	855 836		722 725	947 787	946 1,385	1,487 751	1,057 804	803 755	-

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Currency	Contract type	Jun 2000	Dec 2000	Jun 2001	Dec 2001	Jun 2002	Dec 2002	Jun 2003	Dec 2003	Jun 2004	Dec 2004	Jun 2005	Dec 2005	Jun 2006	Dec 2006	Jun 2007	Dec 2007	Jun 2008
CAD	Forward rate agreements Interest rate swaps Options	1,594 876 1,212	1,876 910 1,622	1,365 818 1,558		1,992 949 1,720	2,325 893 2,426	2,000 974 2,695	1,814 1,018 2,811	2,118 1,008 2,722	1,045	1,815 938 2,333	1,979 978 2,659	1,698 996 2,686	1,687 1,007 2,738	1,308 984 2,341	1,088 945 2,578	978
CHF	Forward rate agreements Interest rate swaps Options	1,505 724 1,495	1,256 708 1,186	1,211 705 1,350		1,262 854 1,220	1,594 890 1,441	1,606 835 1,487	1,475 833 1,347	1,348 800 1,691	1,401 815 1,634	1,244 932 1,223	1,710 1,043 1,214	1,813 1,169 1,296	2,321 1,229 1,034	2,086 1,217 901	2,183 1,176 935	1,470
EUR	Forward rate agreements Interest rate swaps Options	956 543 584	1,071 530 619	954 506 618	571	540 503 636	547 505 558	555 474 600	540 478 575	506 474 605		661 483 556	679 496 547	707 515 557	819 514 577	700 512 616	637 542 669	566
GBP	Forward rate agreements Interest rate swaps Options	666 427 886	788 468 795	769 458 826	490	647 497 786	648 550 685	576 522 670	746 547 661	1,012 723 721	939 691 845	977 695 842	1,180 751 870	1,090 756 908	1,024 702 890	936 729 801	1,003 799 832	944
JPY	Forward rate agreements Interest rate swaps Options	1,073 600 822	1,386 629 876	2,319 691 803	801	2,095 866 1,665	2,316 895 1,749	2,379 935 1,423	1,803 894 1,383	1,463 843 1,158	792	3,163 749 871	3,447 706 903	3,841 661 881	3,662 646 842	2,354 705 972	2,853 731 814	748
SEK	Forward rate agreements Interest rate swaps Options	964 607 969	939 662 900	1,279 601 857	979 623 898	962 530 1,143		970 569 1,101	1,211 602 1,232	1,125 651 1,111	996 664 1,098	902 641 1,036	769 650 1,265	771 658 1,830	892 654 1,350	918 676 1,504	1,131 744 2,278	785
USD	Forward rate agreements Interest rate swaps Options	932 533 858	894 562 931	934 577 832	784	1,070 719 1,239	757	1,142 757 991	978 751 899	791 678 820	625 716 770	604 682 783	703 729 807	782 695 979	884 683 880	825 672 889	916 694 767	764

 Table 6d

 Herfindahl indices for all OTC interest rate derivatives contracts between reporters¹

¹ Reporters (reporting dealers) are defined as those institutions whose head office is located in the G10 countries and which participate in the semiannual OTC derivatives market statistics; in addition, reporting dealers include all branches and subsidiaries of these entities worldwide; reporters will mainly be commercial and investment banks and securities houses, including their branches and subsidiaries and other entities which are active dealers.

Contract type	Jun 2000	Dec 2000	Jun 2001	Dec 2001	Jun 2002	Dec 2002	Jun 2003	Dec 2003	Jun 2004	Dec 2004	Jun 2005	Dec 2005	Jun 2006	Dec 2006	Jun 2007	Dec 2007	Jun 2008
Forwards, forex swaps and currency swaps Options	437 550	430 558	411 496	464 614	444 526	452 512		463 518	499 683		493 635	534 705	532 656	523 603		544 634	

 Table 6e

 Herfindahl indices for all OTC foreign exchange derivatives contracts between reporters¹

¹ Reporters (reporting dealers) are defined as those institutions whose head office is located in the G10 countries and which participate in the semiannual OTC derivatives market statistics; in addition, reporting dealers include all branches and subsidiaries of these entities worldwide; reporters will mainly be commercial and investment banks and securities houses, including their branches and subsidiaries and other entities which are active dealers.

 Table 6f

 Herfindahl indices for all OTC equity-linked derivatives contracts between reporters¹

Region	Contract type	Jun 2000	Dec 2000	Jun 2001	Dec 2001	Jun 2002	Dec 2002	Jun 2003	Dec 2003	Jun 2004	Dec 2004	Jun 2005	Dec 2005	Jun 2006	Dec 2006	Jun 2007	Dec 2007	Jun 2008
Europe	Forwards and swaps Options	694 943	938 874		859 912	840 737		639 655	705 676	582 697	670 715	619 748	760 780	569 829	708 878		1,074 759	804 840
Japan	Forwards and swaps Options	3,614 1,288	5,209 1,758		2,541 924	3,220 1,137		2,225 2,433	,	,	2,367 1,102	2,027 838	,	1,355 3,604	1,562 2,161	1,449 1,139	1,863 1,061	1,317 926
Latin America	Forwards and swaps Options	4,116 7,398	5,115 3,433		10,000 4,273	- /		5,556 3,090	,		3,284 4,587	3,387 5,707	,		5,273 3,253	- ,	,	5,350 5,032
Other Asia	Forwards and swaps Options	7,915 2,502	3,550 1,604			-, -			- ,	,	2,467 874	2,482 1,000	,	1,924 873	1,189 931	1,819 982	2,114 991	1,909 1,159
United States	Forwards and swaps Options	850 975	1,136 1,020	,	1,315 783			708 1,555	889 668	800 774	931 762	870 803	-	629 1,316	1,118 915		879 765	825 796

¹ Reporters (reporting dealers) are defined as those institutions whose head office is located in the G10 countries and which participate in the semiannual OTC derivatives market statistics; in addition, reporting dealers include all branches and subsidiaries of these entities worldwide; reporters will mainly be commercial and investment banks and securities houses, including their branches and subsidiaries and other entities which are active dealers.

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OTC derivatives market activity, first half 2008

		I	Herfindah	I indices	for all O	TC intere	st rate d	erivatives	s contrac	ts betwe	en report	ers ¹ and	non-repo	orters				
Currency	Contract type	Jun 2000	Dec 2000	Jun 2001	Dec 2001	Jun 2002	Dec 2002	Jun 2003	Dec 2003	Jun 2004	Dec 2004	Jun 2005	Dec 2005	Jun 2006	Dec 2006	Jun 2007	Dec 2007	Jun 2008
CAD	Forward rate agreements Interest rate swaps Options	1,567 1,050 1,963	1,050	2,114 1,167 1,917	2,003 1,495 2,111		1,991 1,631 2,451	1,681 1,374 2,174	2,079 1,366 2,269	2,092 1,423 2,448	1,773 1,276 2,632	1,978 1,235 3,559	1,448 1,220 3,339	2,003 1,177 2,763	1,158	1,245 1,192 3,381	1,811 1,158 3,137	1,783 1,097 3,661
CHF	Forward rate agreements Interest rate swaps Options	1,961 741 1,361		1,639 703 1,147	2,171 951 2,146	2,250 1,082 2,061	2,079 1,099 2,254	1,933 1,261 2,354	1,990 1,035 2,140	2,049 1,026 1,929	1,099	1,490 1,074 1,943	1,907 1,125 2,054	1,744 1,086 1,847	-,	2,011 1,208 1,598	1,737 1,248 1,498	1,329 1,282 1,709
EUR	Forward rate agreements Interest rate swaps Options	1,294 557 615	513	1,032 515 543	540	529	931 559 607	814 563 707	1,209 551 684	1,295 565 861	876 656 943	859 545 716	891 556 632	959 570 583	685	1,467 852 697	1,759 779 798	1,849 683 888
GBP	Forward rate agreements Interest rate swaps Options	735 541 689	503	683 489 704	797 562 766	773 599 772	879 604 719	1,247 669 797	2,928 685 781	881 546 946	1,203 583 2,809	1,158 602 2,907	1,693 687 1,127	1,741 757 1,285	1,449 773 1,144	2,149 824 951	2,995 904 1,409	2,896 965 1,731
JPY	Forward rate agreements Interest rate swaps Options	3,153 571 729	632	3,915 575 656	4,132 625 1,009	4,983 717 946	3,782 739 1,402	2,431 767 911	2,105 762 802	1,692 807 1,008	1,395 1,077 1,275	1,503 775 670	1,409 775 732	1,581 736 901	2,406 734 901	4,351 785 1,103	1,893 822 1,716	1,837 820 3,196
SEK	Forward rate agreements Interest rate swaps Options	1,340 760 1,260	784	2,073 716 1,209	771	1,849 751 1,221	1,690 717 1,339	916 707 1,330	879 638 1,327	980 662 1,322	908 879 1,104	1,097 572 1,187	1,174 611 1,531	1,459 660 2,240	708	1,737 829 2,426	1,852 857 2,531	1,801 946 2,344
USD	Forward rate agreements Interest rate swaps Options	805 545 815	574	1,395 538 792	731	694	1,319 683 1,018	1,265 725 1,030	859 674 915	813 661 937	917 871 933	923 702 770	928 747 751	1,001 757 718	1,404 765 863	1,132 794 940	1,289 844 1,745	1,232 891 1,944

Table 6g	
Herfindahl indices for all OTC interest rate derivatives contracts between reporters	and non-reporters

¹ Reporters (reporting dealers) are defined as those institutions whose head office is located in the G10 countries and which participate in the semiannual OTC derivatives market statistics; in addition, reporting dealers include all branches and subsidiaries of these entities worldwide; reporters will mainly be commercial and investment banks and securities houses, including their branches and subsidiaries and other entities which are active dealers.

Contract type	Jun 2000	Dec 2000	Jun 2001	Dec 2001	Jun 2002	Dec 2002	Jun 2003	Dec 2003	Jun 2004	Dec 2004	Jun 2005	Dec 2005	Jun 2006	Dec 2006	Jun 2007	Dec 2007	Jun 2008
Forwards, forex swaps and currency swaps Options	438 566	444 576	453 646	516 675	469 638				445 670	518 638	-		475 659	484 635	492 631	533 673	

Table 6h Herfindahl indices for all OTC foreign exchange derivatives contracts between reporters¹ and non-reporters

¹ Reporters (reporting dealers) are defined as those institutions whose head office is located in the G10 countries and which participate in the semiannual OTC derivatives market statistics; in addition, reporting dealers include all branches and subsidiaries of these entities worldwide; reporters will mainly be commercial and investment banks and securities houses, including their branches and subsidiaries and other entities which are active dealers.

Table 6i Herfindahl indices for all OTC equity-linked derivatives contracts between reporters¹ and non-reporters

Region	Contract type	Jun 2000	Dec 2000	Jun 2001	Dec 2001	Jun 2002	Dec 2002	Jun 2003	Dec 2003	Jun 2004	Dec 2004	Jun 2005	Dec 2005	Jun 2006	Dec 2006	Jun 2007	Dec 2007	Jun 2008
Europe	Forwards and swaps Options	706 743	841 1,312	733 1,962		824 2,235	947 1,327	984 1,788		879 2,227	761 832		767 814	803 721	-	822 1,073	603 965	949 918
Japan	Forwards and swaps Options	2,616 1,822	2,359 918	1,924 1,412	,	,	2,458 2,110	,		3,114 4,446	2,209 1,932		,	,	,	,		1,217 1,786
Latin America	Forwards and swaps Options	6,919 7,794	5,051 6,875	5,524 4,945		,	7,526 9,561	8,863 9,622		3,839 6,678	4,681 4,072			6,857 3,971	7,330 3,953	,	7,603 4,487	6,809 6,529
Other Asia	Forwards and swaps Options	3,734 1,346	1,645 1,702	1,848 1,146	,	,	2,088 2,443	1,273 2,454		1,536 6,013	1,667 2,207		,	1,240 7,619	,	,	,	1,207 1,841
United States	Forwards and swaps Options	1,290 884	1,228 1,023	1,321 851	1,288 955	,	1,229 812	1,265 809		1,276 1,063	1,246 1,213		, -	1,234 1,612	,	,	,	1,014 836

¹ Reporters (reporting dealers) are defined as those institutions whose head office is located in the G10 countries and which participate in the semiannual OTC derivatives market statistics; in addition, reporting dealers include all branches and subsidiaries of these entities worldwide; reporters will mainly be commercial and investment banks and securities houses, including their branches and subsidiaries and other entities which are active dealers.

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