

Exchange-traded futures and options, by location of exchange

Notional principal, in billions of US dollars

	Open interest			Daily average turnover						
	Dec 2019	Dec 2020	Mar 2021	2019	2020	Nov 2020	Dec 2020	Jan 2021	Feb 2021	Mar 2021
Futures										
All markets	35,043	28,995	32,336	7,030	5,415	4,339	4,009	5,034	7,120	6,454
Interest rate	34,771	28,668	32,024	6,903	5,281	4,213	3,851	4,893	6,978	6,289
short-term	31,921	26,287	29,355	6,050	4,507	3,360	3,193	4,144	5,704	5,307
long-term	2,849	2,381	2,669	853	774	853	658	750	1,274	982
Foreign exchange	272	326	312	127	133	126	158	141	142	165
North America	23,886	18,839	21,704	5,097	3,691	2,765	2,279	3,353	4,628	4,280
Interest rate	23,706	18,644	21,522	5,022	3,621	2,710	2,190	3,288	4,557	4,189
short-term	21,800	17,193	19,826	4,508	3,175	2,186	1,914	2,877	3,744	3,684
long-term	1,906	1,451	1,695	514	446	524	276	410	814	506
Foreign exchange	180	195	182	75	70	55	89	66	70	91
Europe	8,166	8,065	8,659	1,564	1,461	1,326	1,479	1,460	2,195	1,830
Interest rate	8,159	8,053	8,646	1,562	1,457	1,321	1,474	1,455	2,190	1,824
short-term	7,516	7,447	7,982	1,317	1,218	1,080	1,199	1,198	1,838	1,483
long-term	643	606	664	245	239	241	275	257	352	341
Foreign exchange	7	12	12	2	4	5	5	5	5	6
Asia and Pacific	1,894	1,252	1,188	265	180	165	164	119	202	231
Interest rate	1,868	1,221	1,154	250	164	148	148	103	185	213
short-term	1,575	903	851	156	75	61	41	21	77	77
long-term	293	318	302	94	89	87	107	82	108	136
Foreign exchange	25	31	34	15	16	17	16	16	17	18
Other Markets	1,097	839	785	103	82	83	88	102	96	113
Interest rate	1,037	750	703	68	39	34	40	48	45	63
short-term	1,030	744	695	68	39	33	40	47	45	63
long-term	7	7	8	0	0	0	0	1	0	0
Foreign exchange	60	89	83	35	43	50	48	54	51	51
Options										
All markets	60,770	36,955	50,389	2,094	1,414	811	626	1,265	1,858	1,574
Interest rate	60,654	36,831	50,276	2,081	1,403	801	615	1,253	1,840	1,561
short-term	59,862	36,278	49,495	1,942	1,308	715	542	1,130	1,690	1,433
long-term	792	553	781	139	95	86	73	123	149	128
Foreign exchange	116	124	114	13	11	11	12	12	18	13
North America	45,417	23,713	34,506	1,758	1,113	591	433	935	1,350	1,244
Interest rate	45,358	23,651	34,449	1,753	1,108	588	430	931	1,346	1,240
short-term	44,759	23,334	33,918	1,646	1,034	523	381	834	1,231	1,140
long-term	599	317	530	107	74	65	49	96	114	100
Foreign exchange	59	62	58	6	4	3	4	4	4	4
Europe	13,760	12,112	15,205	304	279	200	165	297	482	313
Interest rate	13,758	12,111	15,204	304	279	200	164	297	482	313
short-term	13,574	11,880	14,956	275	259	180	141	272	448	287
long-term	184	231	248	29	20	20	23	25	34	26
Foreign exchange	2	1	1	0	0	0	0	0	0	0
Asia and Pacific	10	8	6	8	6	6	6	7	7	9
Interest rate	8	4	2	3	1	1	1	1	1	2
short-term	0	0	0	0	0	0	0	0	0	0
long-term	8	4	2	3	1	1	1	1	1	2
Foreign exchange	3	4	5	5	5	5	6	6	6	7
Other Markets	1,583	1,122	671	24	17	14	22	26	19	7
Interest rate	1,531	1,065	621	22	15	12	20	24	11	6
short-term	1,529	1,064	621	22	15	12	20	24	10	6
long-term	2	1	1	0	0	0	0	0	0	0
Foreign exchange	52	57	50	2	2	2	2	2	8	1

