

STOCK & INDEX RELEASE NOTES

DECEMBER 2016 ANNUAL UPDATE

These release notes pertain to the December 2016 Annual release of the CRSP US Stock and Index databases, available in January 2017.

SUN SOLARIS SUPPORT ENDING

In order to ensure that our subscribers continue to have robust and dependable data access, CRSP is retiring big-endian databases for use on Solaris platforms following publication of the December 2016 data cut that is available in January 2017. After this time CRSP databases will be available in flat file formats that can be used on all platforms, through our partner distributors such as WRDS and TQA, and for use with CRSP tools on the following CRSP-supported platforms:

- Windows 8.1 & 10 – 32-bit & 64-bit
- Red Hat Linux – 32-bit & 64-bit

Oracle's Solaris support at CRSP ended in June 2016. CRSP is making efforts to contact our subscribers impacted by this change to ensure a timely transition. Should you have immediate questions, please contact us at:

User Support – CRSP Research Products:

Support@crsp.ChicagoBooth.edu, or 312-263-6400 select # 2

DECEMBER 2016 DATA EDITS

GROUP EDITS

BEGDT	ENDDT	DESCRIPTION
20010102	20161230	Added missing ADR distributions and made corections to distributions and codes from 2001-2016.
19900102	20161230	Added Facpr for distribuions for about 80 securities within the date range of 19900102 to 20161230

INDIVIDUAL EDITS START ON THE NEXT PAGE

INDIVIDUAL EDITS

PERMNO	COMPANY NAME	DESCRIPTION	BEGDT	ENDT					
15629	VANGUARD MUNICIPAL BOND FUNDS	Change distribution code from 1213 to 1223 on ex-date 20150901, from 1222 to 1223 on ex-date 20151001, from 1222 to 1223 on ex-date 20151102, from 1222 to 1223 on ex-date 20151201 & from 1262 to 1223 on ex-date 20151223							
OLD VALUE:									
Code	Divamt	Facpr	Facshr	Dclrdt	Exdt	Rcrddt	Paydt	Aperm	Acomp
1213	0.01900	0.0000	0.0000	0	20150901	20150903	20150908	0	0
1222	0.07600	0.0000	0.0000	20150929	20151001	20151005	20151007	0	0
1222	0.06700	0.0000	0.0000	20151030	20151102	20151104	20151106	0	0
1222	0.03200	0.0000	0.0000	20151127	20151201	20151203	20151207	0	0
1262	0.10300	0.0000	0.0000	20151221	20151223	20151228	20151230	0	0
NEW VALUE:									
Code	Divamt	Facpr	Facshr	Dclrdt	Exdt	Rcrddt	Paydt	Aperm	Acomp
1223	0.01900	0.0000	0.0000	0	20150901	20150903	20150908	0	0
1223	0.07600	0.0000	0.0000	20150929	20151001	20151005	20151007	0	0
1223	0.06700	0.0000	0.0000	20151030	20151102	20151104	20151106	0	0
1223	0.03200	0.0000	0.0000	20151127	20151201	20151203	20151207	0	0
1223	0.10300	0.0000	0.0000	20151221	20151223	20151228	20151230	0	0
15980	UNDER ARMOUR INC	Changed trading symbol to UACWI from UAWI for 20160323-20160407 and to UAC from UA for 20160408-20161130							
89922	TESSERA TECHNOLOGIES INC	Change company name to TESSERA TECHNOLOGIES INC from TESSERA TECHNOLOGIES for entire history							
77069	NUVEEN MI QUALITY INCOME MUNI FD	Change name to NUVEEN MI QUALITY INCOME MUNI FD from NUVEEN MI QLTY INC MUNI FD INC for 20130107-20161130	1/7/2013	11/30/2016					
13702	D S HEALTHCARE GROUP INC	Removed halt from 20160405 to 20161130. Changed enddate to 20160404 and added delisting information.	4/5/2016	11/30/2016					
63079	KEY ENERGY SERVICES INC	Added zero nameline for the period 20160728 to 20161215 to reflect off-exchange activity.	7/28/2016	12/15/2016					
16275	NUVEEN HIGH INCOME NOVEMBER 2021	Changed shares outstanding to 50000 from 1400 for 20160824-20161229	8/24/2016	12/29/2016					
86996	S B A COMMUNICAITONS CORP	Added Class A designation for entire history.	6/16/1999	12/30/2016					
92681	CHINA HOUSING & LAND DEVELOP INC	Removed reverse split on ex-date 20161219							

PERMNO	COMPANY NAME	DESCRIPTION	BEGDT	ENDT					
87173	LOOKSMART LTD	Change distribution code from 3888 to 3863 and distribution amount from 0.0 to 0.06.							
OLD VALUE:									
Code	Divamt	Facpr	Facshr	Dclrdt	Exdt	Rcrddt	Paydt	Aperm	Acomp
5523	0.00000	-0.6667	-0.6667	0	20131106	20131106	20131106	0	0
5523	0.00000	-0.8488	-0.8488	0	20151028	20151028	20151028	0	0
3723	6.56020	-1.0000	-1.0000	0	20151029	20151027	20151027	15796	55469
3888	0.00000	0.0000	0.0000	0	20151029	20151027 2	0151028	0	0
NEW VALUE:									
Code	Divamt	Facpr	Facshr	Dclrdt	Exdt	Rcrddt	Paydt	Aperm	Acomp
5523	0.00000	-0.6667	-0.6667	0	20131106	20131106	20131106	0	0
5523	0.00000	-0.8488	-0.8488	0	20151028	20151028	20151028	0	0
3723	6.56020	-1.0000	-1.0000	0	20151029	20151027	20151027	15796	55469
3863	0.06000	0.0000	0.0000	0	20151029	20151027	20151028	0	0
19852	SMITH A O CORP	Added closing price, highask, bidlow and volume for 19831003	10/3/1983	10/3/1983					
15388	ACCUSHARES TRUST I	Added closing price to -4.455 from 0, highask to 4.82 from 0, bidlow to 4.09 from 0, ask to 4.82 from 0 & bid to 4.09 from 0 for 20160720	7/20/2016	7/20/2016					
12445	E T F S WHITE METALS BASKET TR	Changed delisting code from 470 to 450 and added final liquidating distribution of \$28.96033 on exdate 20160601	3/2/2016	6/1/2016					
12445	E T F S WHITE METALS BASKET TR	Changed delisting code from 470 to 450 and added final liquidating distribution of \$28.96033 on exdate 20160601	3/2/2016	6/1/2016					

NOVEMBER 2016 DATA EDITS

INDIVIDUAL EDITS

PERMNO	COMPANY NAME	DESCRIPTION	BEGDT	ENDDT
14877	LIMBACH HOLDINGS INC	Added zero nameline for 20160712-20161115 to reflect off-exchange activity	7/12/2016	11/15/2016
86536	DIFFUSION PHARMACEUTICALS INC	Added zero namelines for 19981222-20161108 to reflect off-exchange activity	12/22/1998	11/8/2016
11206	AMERICAN ADVENTURE INC	Changed exchange code to 33 from 3 and security status to W from R for 19870326-19870512	3/26/1987	5/12/1987
15379	MEDIGUS LTD	Changed sharecode from 11 to 12 for 20151109-20161130.	11/9/2015	11/30/2016
85234	CORECIVIC INC	Changed sharecode from 11 to 18 for 20130102-20161130	1/2/2013	11/30/2016
26650	CONSOLIDATED TOMOKA LAND CO	Changed SIC Code from 3825 to 6552 from 20161021-20161130.	10/21/2016	11/30/2016

OCTOBER 2016 DATA EDITS

GROUP EDITS

BEGDT	ENDDT	DESCRIPTION
1998	2010	Changed all company names to MORGAN STANLEY TRUSTS for CNUM 61745P

INDIVIDUAL EDITS

PERMNO	COMPANY NAME	DESCRIPTION	BEGDT	ENDDT
92133	POWERSHARES E T F TRUST II	Changed company name to POWERSHARES E T F TRUST II from POWERSHARES GLOBAL E T F TRUST for 20070906-20161031.	9/6/2007	10/31/2016
92134	POWERSHARES E T F TRUST II	Changed company name to POWERSHARES E T F TRUST II from POWERSHARES GLOBAL E T F TRUST for 20070906-20161031.	9/6/2007	10/31/2016
92138	POWERSHARES E T F TRUST II	Changed company name to POWERSHARES E T F TRUST II from POWERSHARES GLOBAL E T F TRUST for 20070906-20161031.	9/6/2007	10/31/2016
92139	POWERSHARES E T F TRUST II	Changed company name to POWERSHARES E T F TRUST II from POWERSHARES GLOBAL E T F TRUST for 20070906-20161031.	9/6/2007	10/31/2016
14709	UNITED DEVELOPMENT FUNDING IV	Removed halt record from 20160219-20160930 and added delist array on 20160218.	2/18/2016	9/30/2016
92802	CENTRAIS ELETRICAS BRASILEIRAS S	Added zero nameline for 20160518-20161012 to reflect off-exchange activity	5/18/2016	10/12/2016

SEPTEMBER 2016 DATA EDITS

PERMNO	COMPANY NAME	DESCRIPTION	BEGDT	ENDDT
15661	STERICYCLE INC	Removed all data from subscriber database		
15968	HUNTINGTON BANCSHARES INC	Removed all data from subscriber database		
16058	IBERIABANK CORP	Removed all data from subscriber database		
31377	EAGLE LTD	Changed share code to 12 from 10 throughout entire history		
31385	EAGLE CORP LTD	Changed share code to 31 from 30 throughout entire history		
62608	PHILIPS N V	Changed share code to 12 from 10 throughout entire history		
92135	POWERSHARES E T F TRUST II	Changed company name to POWERSHARES E T F TRUST II from POWERSHARES GLOBAL E T F TRUST for 20070906 - 20160930.	9/6/2007	9/30/2016
92136	POWERSHARES E T F TRUST II	Changed company name to POWERSHARES E T F TRUST II from POWERSHARES GLOBAL E T F TRUST for 20070906 - 20160930.	9/6/2007	9/30/2016
92140	POWERSHARES E T F TRUST II	Changed company name to POWERSHARES E T F TRUST II from POWERSHARES GLOBAL E T F TRUST for 20070906 - 20160930.	9/6/2007	9/30/2016
92141	POWERSHARES E T F TRUST II	Changed company name to POWERSHARES E T F TRUST II from POWERSHARES GLOBAL E T F TRUST for 20070906 - 20160930.	9/6/2007	9/30/2016
92142	POWERSHARES E T F TRUST II	Changed company name to POWERSHARES E T F TRUST II from POWERSHARES GLOBAL E T F TRUST for 20070906 - 20160930.	9/6/2007	9/30/2016

AUGUST 2016 DATA EDITS

Edits to names and identifiers reconciled inconsistencies between Company Names with the same CNUMs, and between Acquiring PERMNOs, Acquiring PERMCOs, New PERMOs and New PERMCOs.

PERMNO	COMPANY NAME	DESCRIPTION	BEGDT	ENDDT
89039	H P L TECHNOLOGIES INC	Changed company name from H P L TECHNOLOGIES INCS to H P L TECHNOLOGIES INC for entire history and changed trading symbol change to HPLA from HPLAE on 20020723.	7/31/2001	7/24/2002
55862	BIOMERICA INC	Added zero nameline for the period 20020620-20160825 to reflect off exchange trading.	6/20/2002	8/25/2016
88572	MABVAX THERAPEUTICS HOLDINGS I	Added zero nameline for the period 20140711-20160816 to reflect off exchange trading.	7/11/2014	8/16/2016

PERMNO	COMPANY NAME	DESCRIPTION	BEGDT	ENDDT
16093	ISHARES INC	Changed company name from ISHARE TRUST to ISHARES INC for entire history.	6/30/2016	8/31/2016
65872	BALLY'S PARK PL INC	Changed New Permco to 54172 from 436 in delisting array on 19860612	6/12/1986	6/12/1986
89362	BLACKROCK CA MUNI BOND TRUST	Changed New Permco to 41851 from 43003 in delisting array on 19860612	1/29/2010	1/29/2010
80210	RAYONIER INC NEW	Changed Acquiring Permco to 54876 from 54076 and Permno to 14682 from 14602 on ex date 20140630.	6/30/2014	6/30/2014
10932	WEBSTER FINANCIAL CORP	Changed company name to WEBSTER FINANCIAL CORP from WEBSTER FINL CORP WATERBURY CONN for 20021017-20160831.	10/17/2002	8/31/2016
12565	SPDR SERIES TRUST	Changed company name to SPDR SERIES TRUST from SPDR INDEX SHARES FUNDS for 20110224-20160831.	2/24/2011	8/31/2016
13102	UNITED STATES COMDTY INDEX FDS TR	Changed company name to UNITED STATES COMDTY INDEX FDS TR from UNITED STATES COMDTY IND FD TR for 20111115-20160831.	11/15/2011	8/31/2016
13368	UNITED STATES COMDTY INDEX FDS TR	Changed company name to UNITED STATES COMDTY INDEX FDS TR from UNITED STATES AGRICULTURE IND FD for 20120413-20160831.	4/13/2012	8/31/2016
13449	UNITED STATES COMDTY INDEX FDS TR	Changed company name to UNITED STATES COMDTY INDEX FDS TR from UNITED STATES METALS INDEX FD for 20120619-20160831.	6/19/2012	8/31/2016
14897	CLAYMORE E T F TRUST 2	Changed company name to CLAYMORE E T F TRUST 2 from CLAYMORE E T F TRUST for 20140929-20160831.	9/29/2014	8/31/2016
15213	SSGA ACTIVE TRUST	Changed company name to SSGA ACTIVE TRUST from SSGA ACTIVE E T F TRUST for 20150224-20160831.	2/24/2015	8/31/2016
49015	LINCOLN NATIONAL CORP	Changed company name to LINCOLN NATIONAL CORP from LINCOLN NATIONAL CORP IN for 19690820-20160831.	8/20/1969	8/31/2016
57904	AFLAC INC	Changed company name to AFLAC INC from A F L A C INC for 19920102-20160831.	1/2/1992	8/31/2016
64872	BALLY'S PARK PL INC	Changed Acquiring Permco to 54172 from 436 on ex date 19860613.	6/13/1986	6/13/1986
84129	ZIONS BANCORPORATION	Changed company name to ZIONS BANCORPORATION from ZIONS BANCORP for 19870506-20160831.	5/6/1987	8/31/2016
91848	BLACKROCK GLOBAL EQUITY INC TR	Changed Acquiring Permno to 90675 from 90676 on ex date 20090727.	7/27/2009	7/27/2009
87289	SENIOR HOUSING PROPERTIES TRUST	Changed company name to SENIOR HOUSING PROPERTIES TRUST from SENIOR HOUSING PROPERTIES TR for 19991007-20160831.	10/7/1999	8/31/2016
90760	K K R FINANCIAL HOLDINGS LLC	Changed company name to K K R FINANCIAL HOLDINGS LLC from K K R FINANCIAL HOLDINGS L L C for 20070504-20160831.	5/4/2007	8/31/2016
92388	EL PASO PIPELINE PARTNERS L P	Changed Acquiring Permco to 53667 from 53367 on ex date 20141128.	11/28/2014	11/28/2014
69980	GABELLI EQUITY TRUST INC	Changed Acquiring Permco to 52398 from 52938 on ex date 20070629.	6/29/2007	6/29/2007
91277	LIBERTY INTERACTIVE CORP	Changed company name to LIBERTY INTERACTIVE CORP from LIBERTY INTERACTIVE CORP QVC GRP for 20150608-20160831.	6/8/2015	8/31/2016
23077	HEINZ H J CO	Changed Acquiring Permco to 34987 from 349870 on ex date 20021223.	12/23/2002	12/23/2002

PERMNO	COMPANY NAME	DESCRIPTION	BEGDT	ENDDT
91278	LIBERTY INTERACTIVE CORP	Changed company name to LIBERTY INTERACTIVE CORP from LIBERTY INTERACTIVE CORP QVC GRP for 20150608-20160831.	6/8/2015	8/31/2016
89408	MARKWEST ENERGY PARTNERS LP	Changed Acquiring Permcos to 54205 from 54208 for distributions on ex date 20151203.	12/3/2015	12/3/2015
79340	MINNESOTA MUNICIPAL INC PORT INC	Changed Acquiring Permno to 14975 from 14955 on ex date 20141006.	10/6/2014	10/6/2014
91656	TEEKAY OFFSHORE PARTNERS LP	Changed company name to TEEKAY OFFSHORE PARTNERS LP from TEEKAY OFFSHORE PARTNERS L P for 20061214-20160831.	12/14/2006	8/31/2016
54704	MODINE MANUFACTURING CO	Changed Acquiring Permco to 30953 from 30553 on ex date 20050725.	7/25/2005	7/25/2005
92684	MAIDEN HOLDINGS LTD	Changed company name to MAIDEN HOLDINGS LTD from MAIDEN HOLDNGS LTD for 20080506-20160831.	5/6/2008	8/31/2016
12900	OILTANKING PARTNERS L P	Changed Acquiring Permno to 86223 from 82223 on ex date 20150217.	2/17/2015	2/17/2015
89969	R M R REAL ESTATE FUND	Changed Acquiring Permco to 53173 from 53174 on ex date 20090618.	6/18/2009	6/18/2009
90117	R M R HOSPITALITY & REAL EST FD	Changed Acquiring Permco to 53173 from 53174 on ex date 20090622.	6/22/2009	6/22/2009
90446	R M R FIRE FUND	Changed Acquiring Permco to 53173 from 53174 on ex date 20090619.	6/19/2009	6/19/2009
93055	CLAYMORE E T F TRUST 2	Changed company name to CLAYMORE E T F TRUST 2 from CLAYMORE E T F TRUST for 20091019-20160831.	10/19/2009	8/31/2016
90691	R M R PREFERRED DIVIDEND FUND	Changed Acquiring Permco to 53173 from 53174 on ex date 20090624.	6/24/2009	6/24/2009
80210	RAYONIER INC NEW	Changed Acquiring Permno to 14682 from 14602 and Permco to 54876 from 54076 on ex date 20140630.	6/30/2014	6/30/2014
92504	R M R DIVIDEND CAPTURE FUND	Changed Acquiring Permco to 53173 from 53174 on ex date 20090623.	6/23/2009	6/23/2009
80100	SIMON PROPERTY GROUP INC NEW	Changed Acquiring Permno to 14638 from 14630 on ex date 20140529.	5/29/2014	5/29/2014
14656	SUNOCO INC	Changed Acquiring Permco to 53836 from 538360 on ex date 20120118.	1/18/2012	1/18/2012
89480	TELECOM HOLDRS TRUST	Changed Acquiring Permno to 76799 from 76779 on ex date 20020405.	4/5/2002	4/5/2002
77997	MANAGED MUNI PORTFOLIO II INC	Changed New Permco to 29533 from 29553 on delist date 20020426	4/26/2002	4/26/2002
66114	TEMPLE INLAND INC	Changed Acquiring Permco to 52892 from 52852 on ex date 20073112.	12/31/2007	12/31/2007
19828	WENDYS CO	Changed Acquiring Permco to 46875 from 468750 on ex date 20080326.	3/26/2008	3/26/2008
89408	MARKWEST ENERGY PARTNERS LP	Changed New Permno to 14975 from 14955 on delist date 20151203	12/3/2015	12/3/2015
91120	SPARK NETWORKS PLC	Changed Acquiring Permno to 92185 from 92815 on ex date 20070709.	7/9/2007	7/9/2007

PERMNO	COMPANY NAME	DESCRIPTION	BEGDT	ENDDT
76584	ATMEL CORP	Changed Acquiring Permco to 12027 from 2027 on ex date 20160404.	4/4/2016	4/4/2016
79340	MINNESOTA MUNICIPAL INC PORT INC	Changed New Permno to 14975 from 14955 on delist date 20141003	10/3/2014	10/3/2014
83251	CYTYC CORP	Changed Acquiring Permco to 10504 from 78836 on ex date 20071022.	10/22/2007	10/22/2007
81652	F N B FINANCIAL SERVICES CORP	Changed Acquiring Permno to 89440 from 89940 on ex date 20070731.	7/31/2007	7/31/2007
87166	HOTJOBS COM LTD	Changed Acquiring Permno to 83435 from 83455 on ex date 20020212.	2/12/2002	2/12/2002
47862	KINNARD INVESTMENTS INC	Changed Acquiring Permco to 14980 from 16900 on ex date 20000908.	9/8/2000	9/8/2000
78612	MIRTONE INTERNATIONAL INC	Changed Acquiring Permno to 78611 from 78311 on ex date 19880229.	2/29/1988	2/29/1988
90709	NORTHERN EMPIRE BANCSHARES	Changed Acquiring Permco to 8926 from 85749 on ex date 20070301.	3/1/2007	3/1/2007
93234	OMNIAMERICAN BANCORP INC	Changed Acquiring Permco to 16107 from 16017 on ex date 20141217.	12/17/2014	12/17/2014
12900	OILTANKING PARTNERS L P	Changed New Permno to 86223 from 82223 on delist date 20150213	2/13/2015	2/13/2015
86968	OVERTURE SERVICES INC	Changed Acquiring Permno to 83435 from 83434 on ex date 20031007.	10/7/2003	10/7/2003
88463	RITA MEDICAL SYSTEMS INC	Changed Acquiring Permno to 90179 from 91079 on ex date 20070129.	1/29/2007	1/29/2007
89969	R M R REAL ESTATE FUND	Changed New Permco to 53173 from 53174 on delist date 20090617	6/17/2009	6/17/2009
88470	TALARIAN CORP	Changed Acquiring Permco to 16648 from 11648 on ex date 20020423.	4/23/2002	4/23/2002
90117	R M R HOSPITALITY & REAL EST FD	Changed New Permco to 53173 from 53174 on delist date 20090619	6/19/2009	6/19/2009
90446	R M R FIRE FUND	Changed New Permco to 53173 from 53174 on delist date 20090618	6/18/2009	6/18/2009
90691	R M R PREFERRED DIVIDEND FUND	Changed New Permco to 53173 from 53174 on delist date 20090623	6/23/2009	6/23/2009
76584	ATMEL CORP	Changed Acquiring Permcos to 12027 from 2027 for distributions on ex date 20160405.	4/5/2016	4/5/2016
83251	CYTYC CORP	Changed Acquiring Permcos to 10504 from 78836 for distributions on ex date 20071023.	10/23/2007	10/23/2007
92504	R M R DIVIDEND CAPTURE FUND	Changed New Permco to 53173 from 53174 on delist date 20090622	6/22/2009	6/22/2009
81652	F N B FINANCIAL SERVICES CORP	Changed Acquiring Permno to 89440 from 89940 on ex date 20070801.	8/1/2007	8/1/2007
13554	LIBERTY INTERACTIVE CORP	Changed Acquiring Permno to 14873 from 14072 on ex date 20140828.	8/28/2014	8/28/2014

PERMNO	COMPANY NAME	DESCRIPTION	BEGDT	ENDDT
13553	LIBERTY INTERACTIVE CORP	Changed Acquiring Permno to 14872 from 14072 on ex date 20140828.	8/28/2014	8/28/2014
78612	MIRTONE INTERNATIONAL INC	Changed Acquiring Permno to 78611 from 78311 on ex date 19880301.	3/1/1988	3/1/1988
90709	NORTHERN EMPIRE BANCSHARES	Changed Acquiring Permcos to 8926 from 85749 for distributions on ex date 20070302.	3/2/2007	3/2/2007
93234	OMNIAMERICAN BANCORP INC	Changed Acquiring Permcos to 16107 from 16017 for distributions on ex date 20141218.	12/18/2014	12/18/2014
86968	OVERTURE SERVICES INC	Changed Acquiring Permno to 83435 from 83434 on ex date 20031008.	10/8/2003	10/8/2003
82837	PHARMACEUTICAL PRODUCT DEV INC	Changed Acquiring Permco to 53418 from 53148 on ex date 20100602.	6/2/2010	6/2/2010
88463	RITA MEDICAL SYSTEMS INC	Changed Acquiring Permno to 90179 from 91079 on ex date 20070130.	1/30/2007	1/30/2007
90866	LIBERTY GLOBAL PLC	Changed Acquiring Permco to 45301 from 4539 on ex date 20150702.	7/2/2015	7/2/2015

JULY 2016 DATA EDITS

PERMNO	COMPANY NAME	DESCRIPTION	BEGDT	ENDDT
90400	ADVANCED EMISSIONS SOLUTIONS INC	Added zero nameline for the period 20150203 -20160706 to reflect off exchange trading.	2/3/2015	7/6/2016

JUNE 2016 DATA EDITS

PERMNO	COMPANY NAME	DESCRIPTION	BEGDT	ENDDT
19828	WENDYS CO	Changes shares outstanding to 467476 from 28953 for 20080930-20081030 and to 469770 from 467476 for 20081031-20081127	9/30/2008	11/27/2008
78763	COTT CORP QUEBEC	Updated distcd to 1232 from 1332 for following Ex-Dates: 20150309, 20150603, 20150825, 20151127, and 20160307. Also, updated distamt for following Ex-Dates: 20150309 to .06 from .04752, 20150603 to .06 from .06002, 20150825 to .06 from .05983	3/9/2015	3/7/2016
81741	SOCKET MOBILE INC	Added zero nameline for the period 20120730-20160621 to reflect off exchange trading.	7/30/2012	6/21/2016
90805	DISCOVERY COMMUNICATIONS INC	Changed factor to adjust price to 0.9708 from 0 for distribution on ex-date 20140807	8/7/2014	8/7/2014
90806	DISCOVERY COMMUNICATIONS INC	Changed factor to adjust price to 0.9606 from 0 for distribution on ex-date 20140807	8/7/2014	8/7/2014

MAY 2016 DATA EDITS

PERMNO	COMPANY NAME	DESCRIPTION	BEGDT	ENDDT
14733	J P MORGAN E T F TRUST	Changed name from J P MORGAN EXCHANGE TRADED FD TR to J P MORGAN E T F TRUST for entire history		
15039	J P MORGAN E T F TRUST	Changed name from J P MORGAN EXCHANGE TRADED FD TR to J P MORGAN E T F TRUST for entire history		
15163	J P MORGAN E T F TRUST	Changed name from J P MORGAN EXCHANGE TRADED FD TR to J P MORGAN E T F TRUST for entire history		
15424	D H X MEDIA LTD	Updated all distribution codes to 1332 from 1232 and updated distribution amounts to .01143 from .015 on ex-date 20151006, to .01124 from .01126 on ex-date 20151202, and to .01165 from .01155 on ex-date 20160224	10/6/2015	2/24/2016
15685	J P MORGAN E T F TRUST	Changed name from J P MORGAN EXCHANGE TRADED FD TR to J P MORGAN E T F TRUST for entire history		
15885	J P MORGAN E T F TRUST	Changed name from J P MORGAN EXCHANGE TRADED FD TR to J P MORGAN E T F TRUST for entire history		
16040	J P MORGAN E T F TRUST	Changed name from J P MORGAN EXCHANGE TRADED FD TR to J P MORGAN E T F TRUST for entire history		
16041	J P MORGAN E T F TRUST	Changed name from J P MORGAN EXCHANGE TRADED FD TR to J P MORGAN E T F TRUST for entire history		
84072	DRDGOLD LTD	Changed code on 20151007 and 20160316 from 1252 to 1232.	10/7/2015	3/16/2016
92357	SPDR SERIES TRUST	Updated distribution code from 1222 to 1223 on ex-date 20160401	4/1/2016	4/1/2016
93153	CONCORD MEDICAL SVCS HLDGS LTD	Added Class A for 20150127-present and changed company name to CONCORD MEDICAL SVCS HLDGS LTD from CONCORD MEDICAL SERVICES HLDGS for entire history		

APRIL 2016 DATA EDITS

PERMNO	COMPANY NAME	DESCRIPTION	BEGDT	ENDT
79280	INTERLINK ELECTRONICS INC	Added zero nameline for the period 20060407 to 20160424 to reflect off-exchange activity	4/7/2006	4/24/2016
87533	READING INTERNATIONAL INC	Added closing bid, closing ask and bid/ask average for 20160301, 20160302, 20160303, 20160307, 20160308, 20160309, 20160310, 20160311, 20160314, 20160315, 20160318, 20160322, 20160323, 20160329, 20160330 & 20160331	3/1/2016	3/31/2016
46923	PRIMEENERGY CORP	Added closing bid, closing ask and bid/ask average for 20160301, 20160302, 20160303, 20160304, 20160307, 20160308, 20160309, 20160310, 20160311, 20160314, 20160315, 20160316, 20160317, 20160329, 20160330 & 20160331	3/1/2016	3/31/2016

MARCH 2016 DATA EDITS

NEW FILE FORMATS

In response to high subscriber demand, five versions of the CRSP US Stock database are available in SAS and ASCII formats.

DATABASE NAME	CRSPACCESS DATABASE VOLUME LABELS	SAS AND ASCII VOLUME LABELS
1925 US Stock & Index Database/Files	FIZ	SIZ
1925 US Stock Database/Files	FAZ	SAZ
1962 US Stock & Index Database/Files	AXZ	SXZ
1962 US Stock Database/Files	A6Z	S6Z
CRSP 1925 Historical Indexes	IFZ	SFZ

WHAT IS INCLUDED IN THE NEW FILES?

The flat-file versions of the database include all of the underlying data items stored in CRSPAccess, but for size and efficiency considerations, do not include any of the ts_print/TsQuery available derived items like excess returns.

Index versions of the database include end-of-day values for the CRSP US Total Market Index since going “live” on April 1, 2011.

Contact CRSP for details and more information. Email support@crsp.chicagobooth.edu or call 312-263-6400, Option 2.

INDIVIDUAL EDITS

PERMNO	COMPANY NAME	DESCRIPTION	BEGDT	ENDT
15682	ISHARES TRUST	Changed distribution code from 1222 to 1223 for entire history		
13836	DREYFUS MUNI BOND INFRA FUND INC	Changed distribution codes to 1223 from 1222 for all monthly cash distributions starting 20150915	9/15/2015	2/16/2016
15156	F Q F TRUST	Changed all distribution codes to 1232 from 1222 starting on 20150415		
75113	ICAHN ENTERPRISES L P	Changed distribution code for distribution on 20151112 to 1234 from 1233	11/12/2015	11/12/2015
15681	ISHARES TRUST	Changed distribution codes to 1223 from 1222 for entire history		
11990	K K R & CO LP	Changed name for entire history to K K R & CO LP from K K R & CO L P		

PERMNO	COMPANY NAME	DESCRIPTION	BEGDT	ENDT
12485	6D GLOBAL TECHNOLOGIES INC	Changed end date to 20150910 and added delist code of 585.		
89283	ALLIANCE NY MUN INC FD	Added final liquidating distribution, and changed delisting code to 450 from 470.	8/5/2015	8/6/2015
12522	E T F S ASIAN GOLD	Added final liquidating distribution, and changed delisting code to 450 from 470.	8/13/2015	8/13/2015
14398	MARKET VECTORS E T F TRUST	Added final liquidating distribution, and changed delisting code to 450 from 470.	10/29/2015	10/28/2015
14395	MARKET VECTORS E T F TRUST	Changed delisting code to 450 from 470.	10/28/2015	10/28/2015
14397	MARKET VECTORS E T F TRUST	Changed delisting code to 450 from 470.	10/28/2015	10/28/2015
14396	MARKET VECTORS E T F TRUST	Changed delisting code to 450 from 470.	10/28/2015	10/28/2015
13778	PIMCO E T F TRUST	Added final liquidating distribution, and changed delisting code to 450 from 470.	9/24/2015	9/24/2015
93029	PIMCO E T F TRUST	Added final liquidating distribution, and changed delisting code to 450 from 470.	9/24/2015	9/24/2015
93107	PIMCO E T F TRUST	Added final liquidating distribution, and changed delisting code to 450 from 470.	9/23/2015	9/23/2015
12517	CLAYMORE E T F TRUST	Added final liquidating distribution, and changed delisting code to 450 from 470.	12/31/2015	12/31/2015

FEBRUARY 2016 DATA EDITS

PERMCO CONSISTENCY CHANGES

We changed the PERMCOs for 15 ISHARES TRUST securities so the PERMCO is consistent with the NASDAQ Organization Identifier for other ISHARES TRUST ETFs.

PERMNO	COMPANY NAME	DESCRIPTION	BEGDT	ENDDT
84603	CRESUD S A C I F Y A	Changed Paydt from 21031120 to 20131120 on ex-date 20131118	11/18/2013	11/18/2013
12904	SCHWAB STRATEGIC TRUST	Changed distribution code to 1222 from 1232 on ex-date 20151201 and to 1222 from 1262 on ex-date 20161229		
12059	SCHWAB STRATEGIC TRUST	Changed distribution code to 1222 from 1272 on ex-date 20151201 and to 1222 from 1262 on ex-date 20151229		
13608	ISHARES TRUST	Changed PERMCO to 37493 from 54199 for entire history		
13609	ISHARES TRUST	Changed PERMCO to 37493 from 54199 for entire history		
13612	ISHARES TRUST	Changed PERMCO to 37493 from 54199 for entire history		
13847	ISHARES TRUST	Changed PERMCO to 37493 from 54199 for entire history.		
13850	ISHARES TRUST	Changed PERMCO to 37493 from 54199 for entire history		
13851	ISHARES TRUST	Changed PERMCO to 37493 from 54199 for entire history		
13852	ISHARES TRUST	Changed PERMCO to 37493 from 54199 for entire history		
13853	ISHARES TRUST	Changed PERMCO to 37493 from 54199 for entire history		
13854	ISHARES TRUST	Changed PERMCO to 37493 from 54199 for entire history		
13855	ISHARES TRUST	Changed PERMCO to 37493 from 54199 for entire history		
14020	ISHARES TRUST	Changed PERMCO to 37493 from 54199 for entire history.		

14021	ISHARES TRUST	Changed PERMCO to 37493 from 54199 for entire history.		
14022	ISHARES TRUST	Changed PERMCO to 37493 from 54199 for entire history.		
14023	ISHARES TRUST	Changed PERMCO to 37493 from 54199 for entire history.		
14025	ISHARES TRUST	Changed PERMCO to 37493 from 54199 for entire history.		

JANUARY 2016 DATA EDITS

INDIVIDUAL EDITS

PERMNO	COMPANY NAME	DESCRIPTION	BEGDT	ENDDT
13755	KALOBOS PHARMACEUTICALS INC	Changed end date to 20151216, added delisting information on 20151216 and removed all data from 20151217-20151231	12/16/2015	12/31/2015

FILE VERSION SPECIFICS

This table contains version specific information for the CRSP Stock Files with data ending December 2016. It contains the number of securities and information about the maximums of the event arrays.

FILE CODE	# OF SECURITIES	MAX NAMES	MAX DISTS	MAX SHARES	MAX DELISTS	MAX GROUPS	MAX NASDIN	FIRST PERMNO	LAST PERMNO
DAZ	31628	39	1538	2393	1	4	2619	10000	93436
MAZ	31599	39	1538	2393	1	4	2619	10000	93436

CALENDAR	DATE RANGE	DATE INDEX RANGE
Daily trading calendar	19251231-20161230	1-24039
Month-end trading calendar	19251231-20161230	1-1093
Year-end trading calendar	19251231-20171229	1-93
Quarter-end trading calendar	19251231-20171229	1-369
Weekly trading calendar	19260102-20161230	1-4748

CRSPACCESS PRODUCT INFORMATION

To simplify installation for our subscribers, data are bundled into product groups. Information relevant to each product group is listed in the table below.

PRODUCT NAME	DATABASE	SIZE	INDEXES	PORTFOLIOS	COMPONENTS & DESCRIPTION
CRSP 1925 US Stock and Index Database	FIZyyyyymm SIZyyyyymm (SAS/ASCII)	4.1 GB	All CRSP indexes and portfolio assignments	All portfolios	DI - 1925 Daily US Stock & Index Database MI - 1925 Monthly US Stock & Index Database IF - CRSP Supplemental US Indexes
CRSP 1925 US Stock	FAZyyyyymm SAZyyyyymm (SAS/ASCII)	3.7 GB	CRSP NYSE/ AMEX/ NASDAQ Value-weighted Market, CRSP NYSE/ AMEX/ NASDAQ Equal-weighted Market, S&P 500 Composite, NASDAQ Composite		DA - 1925 Daily US Stock MA - 1925 Monthly US Stock IN - CRSP Limited US Indexes
CRSP 1962 US Stock	A6Zyyyyymm S6Zyyyyymm (SAS/ASCII)	3.3 GB	CRSP NYSE/ AMEX/ NASDAQ Value-weighted Market, CRSP NYSE/ AMEX/ NASDAQ Equal-weighted Market, S&P 500 Composite, NASDAQ Composite		D6 - 1962 Daily US Stock M6 - 1962 Monthly US Stock IN - CRSP Limited US Indexes
CRSP 1962 US Stock and Index Database	AXZyyyyymm SXZyyyyymm (SAS/ASCII)	3.6 GB	See FIZ	All portfolios	DX - 1962 Daily US Stock & Index Database MX - 1962 Monthly US Stock & Index Database IF - CRSP Supplemental US Indexes
CRSP 1925 US Indexes	IFZyyyyymm SFZyyyyymm	122 MB			IF - CRSP Supplemental US Indexes
CRSP/Compustat Merged Database	CMZyyyyymm	10.37 GB			CM - Compustat Data formatted in CRSPAccess Database
Daily & Monthly Treasuries in CRSPSift	TRZyyyyymm	278 MB			TR - Database format for use with CRSPSift
Daily & Monthly Treasuries Files	TFZyyyyymm	1.75 GB			TF - Expanded daily and monthly files in EXCEL, SAS, and ASCII formats
Mutual Fund Database	MFZyyyyymm	10 GB			MF - Mutual Funds
CRSP/Ziman Daily & Monthly REIT	RAZyyyyymm	251 MB			RD - Daily REITs RM - Monthly REITs

DELIVERY METHOD, INSTALLS, AND DATA FORMATS

DELIVERY

CRSP data delivery for all products is available only through the Cloud, utilizing IPSwitch's MOVEit Cloud product. (<https://crsp.moveitcloud.com>)

If you have not yet accessed your account, or need assistance, contact support@crsp.chicagobooth.edu, or call 312-263-6400, Option 2.

While DVDs are no longer available from CRSP, you are welcome to create your own once you have downloaded the data, and use as long as you have an active license to do so.

ZIP INSTALLS

CRSP uses a zip process for data installation. ZIP utilities that are standard on all platforms should work to unzip the databases. On Windows computers, CRSP recommends using 7-ZIP, which can be downloaded from this site: <http://www.7-zip.org/>

Several important items to note follow:

- All directories are extracted to lower case letters. For example: C:\crspdata\miz201308

- All Windows Users: Extracting a zipped file does not create an installed program in Windows. It will not show in the Windows Control Panel. When uninstalling the data, just delete the directories that contain the detailed files
- Red Hat Linux Users: If your version of Red Hat is earlier than 6.0, you will need to install an updated version of the “File Roller” program in order to install the data

ZIP FILE STRUCTURE AND PROCESS

Windows 7/XP Products:

PRODUCT LABEL	PRODUCT NAME	FILE NAME
A6Z1_YYYYMM_SLD	CRSP 1962 US Stock	a6zyYYYYMM_cadb.zip
AXZ1_YYYYMM_SLD	CRSP 1962 US Stock and Index	axzyYYYYMM_cadb.zip
FAZ1_YYYYMM_SLD	CRSP 1925 US Stock	fazyYYYYMM_cadb.zip
FIZ1_YYYYMM_SLD	CRSP 1925 US Stock and Index	fizyYYYYMM_cadb.zip
IFZ1_YYYYMM_SGD	CRSP 1925 Indexes	ifzyYYYYMM_cadb.zip

Red Hat Linux Products:

PRODUCT LABEL	PRODUCT NAME	FILE NAME
A6Z1_YYYYMM_SLD	CRSP 1962 US Stock	a6zyYYYYMM_cadb.zip
AXZ1_YYYYMM_SLD	CRSP 1962 US Stock and Index	axzyYYYYMM_cadb.zip
FAZ1_YYYYMM_SLD	CRSP 1925 US Stock	fazyYYYYMM_cadb.zip
FIZ1_YYYYMM_SLD	CRSP 1925 US Stock and Index	fizyYYYYMM_cadb.zip
IFZ1_YYYYMM_SGD	CRSP 1925 Indexes	ifzyYYYYMM_cadb.zip

Solaris SPARC Products:

PRODUCT LABEL	PRODUCT NAME	FILE NAME
A6Z1_YYYYMM_SBD	CRSP 1962 US Stock	a6zyYYYYMM_sparc.zip
AXZ1_YYYYMM_SBD	CRSP 1962 US Stock and Index	axzyYYYYMM_sparc.zip
FAZ1_YYYYMM_SBD	CRSP 1925 US Stock	fazyYYYYMM_sparc.zip
FIZ1_YYYYMM_SBD	CRSP 1925 US Stock and Index	fizyYYYYMM_sparc.zip
IFZ1_YYYYMM_SGD	CRSP 1925 Indexes	ifzyYYYYMM_sparc.zip

Flat File Products:

PRODUCT NAME	FILE NAME
SAS Zip	s*zyYYYYMM_sas.zip
ASCII Zip	s*zyYYYYMM_ascii.zip

STEPS TO INSTALL:

- From the directory containing your downloaded zip file, right click (in Windows) or run File Roller (in Red Hat and Solaris)
- Set the extract destination to the current higher level directory where data is normally stored and unzip will add the rest of the path (default is C:\ in Windows or /home in Red Hat and Solaris)
- For example, in Windows, extracting to C:\ will install the data under C:\crspdata

Contact CRSP Client Services for assistance at: support@crsp.chicagobooth.edu or call 312-263-6400, Option 2.

SETTING ENVIRONMENT VARIABLES

The zip process will not automatically set environment variables for use with command line tools. The following steps will do so.

NOTE: CRSPSift does not use and therefore does not require environment variables.

LINUX AND SUN SOLARIS

NOTE: The new zip installs are now saving to directories with lower case letters – for example, ~/crspdata/diz201308

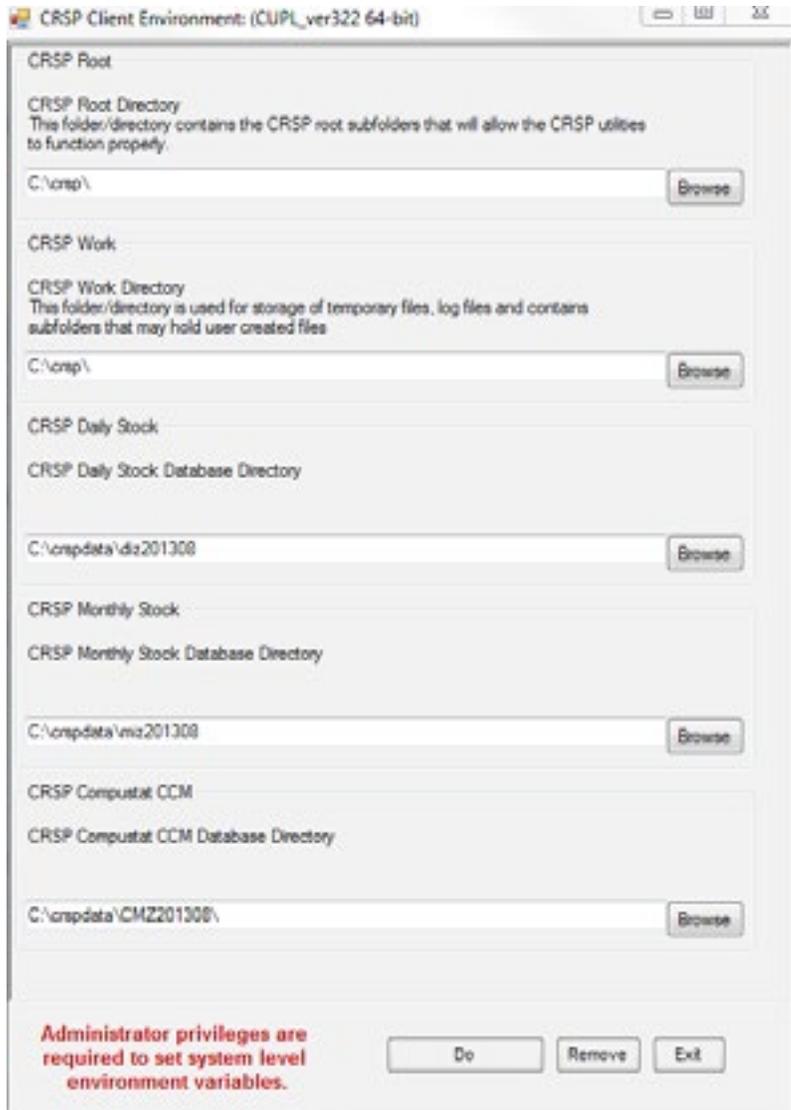
Check the current state of the environment variables by entering this command: `env | grep crsp`

- If you have admin privileges on your machine, open the .profile file, and make updates to the following lines to update the paths for the new data installed:
 - `CRSP_DSTK=<full path name>/<daily stock directory>` (example: `CRSP_DSTK=~ /crspdata/diz201308`)
 - `CRSP_MSTK==<full path name>/<monthly stock directory>` (example: `CRSP_MSTK=~ /crspdata/miz201308`)
 - `CRSP_IND=<full path name>/<index directory>` (example: `CRSP_IND=~ /crspdata/ifz201308`)
- If you are using the bash shell (or any Bourne-style shell), enter the same commands above and export each one. This will make changes for your current session only and does not save to the .profile file.
- A shell script is available to make changes that can be reused for each update done. Note that this will only make changes to your current session and does not save to the .profile file.
 - Navigate to where the CUPL tools are loaded and then enter: `cd accbin`
 - Start the script by entering: `./crsp_setup.sh`
 - The script will prompt for the following:
 - File name (*will be appended with .kshrc*)
 - Top level directory (this should be where CUPL tools are located (example: `~/crsp`))
 - Scratch directory for error messages – name can be anything
 - Enter path for daily stock directory (example: `~/crspdata/diz201308`)
 - Enter path for monthly stock directory (example: `~/crspdata/miz201308`)
 - Enter path for index directory (example: `~/crspdata/ifz201308`)
 - Enter path for CCM directory – enter to leave blank
 - Enter path for CST directory – enter to leave blank
 - Execute script by running: `./<file name created above>.kshrc` (*note there is a space between the two dots*)

WINDOWS:

The CRSP Client Environment utility provides users a way to check the location of the software and to set environment variables. The utility can be started by locating it under installed programs CRSPAccess/CRSP Client Environment, or by navigating to the /accbin folder where the CUPL tools are installed and running: `Client_Environment.exe` (screen shot is displayed below). After making any changes, be sure to log off and back into Windows for the settings to be saved.

Note: For subscribers of the CRSP Compustat Merged database, additional CCM database environments will be displayed for the location of the Compustat data.



The screenshot shows the 'CRSP Client Environment: (CUPL_ver322 64-bit)' window. It contains several sections for setting directory paths:

- CRSP Root:** CRSP Root Directory. This folder/directory contains the CRSP root subfolders that will allow the CRSP utilities to function properly. Path: `C:\crsp\`.
- CRSP Work:** CRSP Work Directory. This folder/directory is used for storage of temporary files, log files and contains subfolders that may hold user created files. Path: `C:\crsp\`.
- CRSP Daily Stock:** CRSP Daily Stock Database Directory. Path: `C:\crspdata\dsa201308`.
- CRSP Monthly Stock:** CRSP Monthly Stock Database Directory. Path: `C:\crspdata\msa201308`.
- CRSP Compustat CCM:** CRSP Compustat CCM Database Directory. Path: `C:\crspdata\CMZ201308\`.

At the bottom, there is a red warning: **Administrator privileges are required to set system level environment variables.** and three buttons: **Do**, **Remove**, and **Exit**.