

Putnam VT Multi-Asset Absolute Return Fund

Full holdings as of June 30, 2018

FNMA FN30 TBA 03.5000 08/01/2048	6.39
ENERGY SELECT SECTOR SPDR	2.57
S&P GSCI TOTAL RETURN INDEX 3X 144A NOTE 12/10/2018	1.94
TECHNOLOGY SELECT SECT SPDR	1.35
CONSUMER DISCRETIONARY SELT	1.34
MATERIALS SELECT SECTOR SPDR	1.30
FINANCIAL SELECT SECTOR SPDR	1.23
DJUBS LONG F3 - SHORT DJUBS F0 3X 144A NOTE 2/28/2019	1.16
ISHARES MSCI INDIA ETF	1.03
RU10INTR P US0003M R 06/13/19 BA	0.92
BOFA MERRILL LYNCH COMMODITY MLBX4SX6 EXCESS RETURN STRATEGY	0.90
GSGLPW2S P US0001M R 12/15/20 GS	0.84
CITI COMMODITIES F3 VS F0 - 4X NOTE 07/11/2019	0.80
S&P GSCI 3X NOTE 04/01/2019	0.79
DJUBS LONG F3 - SHORT DJUBS 3X 144A NOTE 01/07/2019	0.78
SAMSUNG ELECTRONICS CO LTD	0.70
GSGLPWDS P US0001M R 12/15/20 GS	0.55
S&P GSCI TOTAL RETURN INDEX 3X NOTE 11/5/2018 -DB	0.51
TENCENT HOLDINGS LTD	0.48
CHINA CONSTRUCTION BANK-H	0.35
PROVINCIA DE BUENOS P/P 144A 10.8750 01/26/2021	0.35
JPCMPTSH P US0001M R 04/08/19 JP	0.35
ALIBABA GROUP HOLDING-SP ADR	0.33
JPCMPTSH P US0001M R 04/08/19 JP	0.31
BAML COMMODITY MLBX4SX6 EXCESS RETURN STRATEGY 3X144A NOTE	0.31
IND & COMM BK OF CHINA-H	0.29
CAS 2016-C02 1B 14.3411 09/25/2028	0.29
SK HYNIX INC	0.26
TAIWAN SEMICONDUCTOR-SP ADR	0.24
CHINA PETROLEUM & CHEMICAL-H	0.23
FORMOSA CHEMICALS & FIBRE	0.22
WALMART DE MEXICO SAB DE CV	0.22
SPST 2018-1 A 02.8613 04/24/2019	0.21
TENAGA NASIONAL BHD	0.20
SK TELECOM	0.20
WFRBS 2012-C7 F P/P 144A 04.5000 06/15/2045	0.20
PTT PCL/FOREIGN	0.19
ANHUI CONCH CEMENT CO LTD-H	0.19
COUNTRY GARDEN HOLDINGS CO	0.19
AGRICULTURAL BANK OF CHINA-H	0.19
HYPERA SA	0.18
TIM PARTICIPACOES SA	0.18
FOSUN INTERNATIONAL	0.17
LG ELECTRONICS INC	0.17
YY INC-ADR	0.17

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BANK OF COMMUNICATIONS - H	0.17
LOTTE CHEMICAL CORP	0.16
SPST 2018-3 A 02.7911 07/24/2019	0.16
EVRAZ PLC	0.16
PTT GLOBAL CHEMICAL PCL-FOR	0.16
CIA SANEAMENTO BASICO DE SP	0.15
CMLTI 2007-AR5 1A1A 03.8172 04/25/2037	0.15
GNR 2016-135 PI IO 04.0000 05/20/2046	0.14
WFCM 2014-LC18 D P/P 144A 03.9570 12/15/2047	0.14
BANCO SANTANDER BRASIL-UNIT	0.13
BANK OF CHINA LTD-H	0.13
LG UPLUS CORP	0.13
PUB BANK BERHAD	0.12
INDUSTRIAL BANK OF KOREA	0.12
LETRAS BANCO CENT ARGENT 00.0000 08/15/2018	0.12
PETROLEOS MEXICANOS USD 04.5000 01/23/2026	0.12
GNR 2010-125 SD IO 04.5949 01/16/2040	0.11
BANCO ITAU HOLDING PFD	0.11
HANA FINANCIAL GROUP	0.11
SMILES FIDELIDADE SA	0.11
MR PRICE GROUP LTD	0.11
AGILE GROUP HOLDINGS LTD	0.11
SPST 2017-LD1 A 02.8911 11/25/2050	0.11
CHINA RAILWAY GROUP LTD-H	0.11
WANT WANT CHINA HOLDINGS LTD	0.11
GNR 2018-59 ID IO 04.5000 06/20/2040	0.11
GUANGZHOU R&F PROPERTIES - H	0.11
WFMBS 2005-AR4 1A3 04.0030 04/25/2035	0.10
IMPERIAL HOLDINGS LTD	0.10
KB FINANCIAL GROUP INC	0.10
SBERBANK PJSC -SPONSORED ADR	0.10
YUANTA FINANCIAL HOLDING CO	0.10
ACER INC	0.10
GNR 2015-H24 HI IO 02.0270 09/20/2065	0.10
KUMBA IRON ORE LTD	0.10
DONGFENG MOTOR GRP CO LTD-H	0.10
GRUMA S.A.B.-B	0.09
GEELY AUTOMOBILE HOLDINGS LT	0.09
GNR 2016-H02 BI IO 01.3847 11/20/2065	0.09
XLE US R US0001M P 03/25/19 JP	0.09
GNR 2016-150 I IO 05.0000 11/20/2046	0.09
UBSBB 2013-C6 E P/P 144A 03.5000 04/10/2046	0.09
GNR 2015-H25 BI IO 01.4386 10/20/2065	0.08
FORMOSA PLASTICS CORP	0.08
TURKIYE GARANTI BANKASI	0.08

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BARLOWORLD LTD	0.08
GNR 2015-H15 JI IO 01.9426 06/20/2065	0.08
GNR 2017-H11 NI IO 01.9295 05/20/2067	0.08
WAMU 2004-AR12 A2B 03.0111 10/25/2044	0.08
RADIANT OPTO-ELECTRONICS COR	0.08
GNR 2017-H14 DI IO 01.6963 06/20/2067	0.08
IRB BRASIL RESSEGUROS SA	0.08
STRU KG-8488 SA IO 04.1023 06/20/2048	0.08
AIRASIA GROUP BHD	0.07
PETROLEOS DE VENEZUELA S REGS 05.3750 04/12/2027	0.07
ST SHINE OPTICAL CO LTD	0.07
OLD MUTUAL LTD	0.07
INTER RAO UES PJSC	0.07
GNR 2015-H25 AI IO 01.6062 09/20/2065	0.07
GNR 2013-6 AI IO 03.5000 08/20/2039	0.07
ZHONGSHENG GROUP HOLDINGS	0.07
FNR 2017-2 KI IO 04.0000 02/25/2047	0.07
FHR 4134 PI IO 03.0000 11/15/2042	0.07
GNR 2015-H24 BI IO 01.6026 08/20/2065	0.07
PETROBRAS GLOBAL FINANCE USD 06.2500 03/17/2024	0.06
FNR 2017-8 SB IO 04.0089 02/25/2047	0.06
ENBRIDGE INC USD 04.2500 12/01/2026	0.06
GNR 2015-187 JI IO 04.0000 03/20/2045	0.06
GNR 2015-80 IA IO 04.5000 06/20/2045	0.06
SHINHAN FINANCIAL GROUP LTD	0.06
GNR 2015-H26 GI IO 01.7873 10/20/2065	0.06
BALTA 2004-3 B 05.0161 04/25/2034	0.06
SINOPEC SHANGHAI PETROCHEM-H	0.06
NASPERS LTD-N SHS	0.06
GNR 2015-H09 AI IO 01.7133 04/20/2065	0.06
SYNNEX TECHNOLOGY INTL CORP	0.06
GNR 2017-H02 BI IO 02.3476 01/20/2067	0.06
CGPUTQL2 R US0003M P 11/27/18 CI	0.06
FHR 4568 MI IO 04.0000 04/15/2046	0.06
CHONGQING RURAL COMMERCIAL-H	0.06
GNR 2015-H09 BI IO 01.6891 03/20/2065	0.06
GUANGZHOU BAIYUNSHAN PHARM-H	0.06
GNR 2015-H19 NI IO 01.9073 07/20/2065	0.06
ISBANK-C	0.05
GNR 2015-H20 CI IO 01.5873 08/20/2065	0.05
GNR 2017-57 AI IO 04.0000 06/20/2045	0.05
GNR 2016-37 IW IO 04.5000 02/20/2046	0.05
TRIPOD TECHNOLOGY CORP	0.05
PETROBRAS GLOBAL FINANCE USD 08.7500 05/23/2026	0.05
GNR 2014-H21 AI IO 01.1672 10/20/2064	0.05

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GECMC 2005-C1 D 04.5618 06/10/2048	0.05
FREEMPORT-MCMORAN INC	0.05
GNR 2015-53 MI IO 04.0000 04/16/2045	0.05
CMB CMBX.NA.BB.6 2063-05-11 500.0 05/11/2063 CS	0.05
CDX CDX.NA.HY.30 500.0 06/20/2023	0.05
TIANNENG POWER INTL LTD	0.05
SPY 20190517 P 240.00BANKAM	0.05
GNR 2015-105 LI IO 05.0000 10/20/2039	0.05
FNR 2016-3 NI IO 06.0000 02/25/2046	0.05
GNR 2015-H22 GI IO 02.5722 09/20/2065	0.05
CWALT 2005-27 1A6 02.9111 08/25/2035	0.05
GNR 2015-124 NI IO 03.5000 06/20/2039	0.05
GNR 2017-H06 BI IO 02.2713 02/20/2067	0.05
CAS 2015-C04 1M2 07.7911 04/25/2028	0.05
SPY 20190315 P 245.00JPMCB	0.05
GNR 2015-167 BI IO 04.5000 04/16/2045	0.05
GNR 2015-H10 CI IO 01.8025 04/20/2065	0.05
FNR 2013-35 PI IO 03.0000 02/25/2042	0.05
WFRBS 2011-C3 E P/P 144A 05.0000 03/15/2044	0.05
GNR 2016-H03 AI IO 01.5419 01/20/2066	0.04
FORD OTOMOTIV	0.04
SPY 20190118 P 250.00CITI	0.04
GNR 2010-9 UI IO 05.0000 01/20/2040	0.04
SPY 20190621 P 245.00JPMCB	0.04
GNR 2016-H08 GI IO 01.4213 04/20/2066	0.04
CHINA MOBILE LTD	0.04
SPY 20190418 P 235.00BANKAM	0.04
NZD/USD 07/18/2018 UBS	0.04
JPMBB 2013-C14 E P/P 144A 04.7172 08/15/2046	0.04
UNI-PRESIDENT ENTERPRISES CO	0.04
GNR 2015-64 PI IO 03.5000 05/20/2045	0.04
PETROBRAS GLOBAL FINANCE USD 06.1250 01/17/2022	0.04
LG CORP	0.04
GNR 2013-20 QI IO 04.5000 12/16/2042	0.04
1.70 R ISWP FWD GBL6M P 09/19/2028	0.04
INDOFOOD SUKSES MAKMUR TBK P	0.04
CHINA SHINEWAY PHARMACEUTICA	0.04
GNR 2016-H16 DI IO 02.8693 06/20/2066	0.04
UBSBB 2012-C2 F P/P 144A 05.0000 05/10/2063	0.04
THAI OIL PCL-FOREIGN	0.04
CAS 2017-C02 2B1 07.5911 09/25/2029	0.04
SPY 20190215 P 240.00CITI	0.04
2.75 R ISWP FWD US0003M P 06/20/2023	0.04
CAS 2017-C02 2M2 05.7411 09/25/2029	0.04
GNR 2015-24 IA IO 03.5000 02/20/2045	0.03

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CAS 2017-C06 2M2 04.8911 02/25/2030	0.03
FHR 4097 PI IO 03.5000 11/15/2040	0.03
HAIER ELECTRONICS GROUP CO	0.03
GNR 2009-121 UI IO 05.0000 12/20/2039	0.03
CMB CMBX.NA.BB.6 2063-05-11 500.0 05/11/2063 GS	0.03
GNR 2015-82 GI IO 03.5000 12/20/2038	0.03
GNR 2015-H16 XI IO 01.7617 07/20/2065	0.03
JASTRZEBSKA SPOLKA WEGLOWA S	0.03
GUANGZHOU AUTOMOBILE GROUP-H	0.03
NZD/USD 07/18/2018 JPMCB	0.03
GNR 2014-163 NI IO 05.0000 02/20/2044	0.03
GNR 2010-20 UI IO 05.0000 02/20/2040	0.03
WFMB 2006-AR6 7A2 03.6538 03/25/2036	0.03
CWHL 2005-3 1A1 02.7111 04/25/2035	0.03
FHR 4073 AS IO 03.9768 08/15/2038	0.03
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 JP	0.03
FHR 4099 BI IO 03.5000 06/15/2039	0.03
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 GS	0.03
GNR 2011-17 S IO 03.9663 02/20/2041	0.03
GNR 2010-134 ES IO 03.9163 11/20/2039	0.03
GNR 2014-133 AI IO 04.0000 10/20/2036	0.03
GNR 2014-122 IC IO 05.0000 08/20/2044	0.03
GNR 2013-157 IA IO 03.5000 04/20/2040	0.03
SEK/USD 09/19/2018 SSBT	0.03
GNR 2013-79 XI IO 03.5000 11/20/2039	0.03
GNR 2016-H04 KI IO 01.3917 02/20/2066	0.03
GNR 2013-24 PI IO 04.0000 11/20/2042	0.02
NZD/USD 07/18/2018 GSFY	0.02
ASTRAL FOODS LTD	0.02
FHR 4206 IP IO 03.0000 12/15/2041	0.02
SEK/USD 09/19/2018 GSFY	0.02
NZD/USD 07/18/2018 SSBT	0.02
QUILTER PLC	0.02
GNR 2015-H10 EI IO 01.6241 04/20/2065	0.02
UNITED TRACTORS TBK PT	0.02
GNR 2015-99 LI IO 04.0000 07/20/2045	0.02
GNR 2015-96 NI IO 03.5000 01/20/2039	0.02
FHR 4193 PI IO 04.0000 03/15/2043	0.02
MYL US P R 07/05/22 CI	0.02
KOC HLDG	0.02
TURK SISE CAM	0.02
0.95 R ISWP FWD EUR006M P 09/19/2028	0.02
GNR 2015-H18 IA IO 01.8118 06/20/2065	0.02
GNR 2016-168 AI IO 05.0000 07/20/2045	0.02
HYUNDAI MARINE	0.02

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PROVINCIA DE BUENOS P/P 144A35.1903 05/31/2022	0.02
VAR US P R 07/05/22 CI	0.02
GNR 2011-H15 AI IO 01.5554 06/20/2061	0.02
FNR 2012-151 PI IO 03.0000 01/25/2043	0.02
PAYC US P R 07/05/22 CI	0.02
MISC BHD	0.02
GNR 2013-100 MI IO 03.5000 02/20/2043	0.02
GNR 2013-23 IK IO 03.0000 09/20/2037	0.02
SEK/USD 09/19/2018 JPMCB	0.02
FNR 2012-136 PI IO 03.5000 11/25/2042	0.02
2.95 R ISWP FWD US0003M P 09/19/2028	0.02
TXT US P US0001M R 07/05/22 CI	0.02
0.50 R ISWP FWD CHL6M P 09/19/2028	0.02
COUNTRY GARDEN SERVICES HOLD	0.02
PEGA US P R 07/05/22 CI	0.02
GNR 2013-102 IP IO 03.5000 06/20/2043	0.02
PETROBRAS GLOBAL FINANCE REGS 05.9990 01/27/2028	0.01
CAS 2015-C02 2M2 06.0911 05/25/2025	0.01
GNR 2013-129 SN IO 04.0663 09/20/2043	0.01
FNR 2013-31 NI IO 03.0000 06/25/2041	0.01
SEK/USD 09/19/2018 CITI	0.01
MLMT 2004-KEY2 D 05.0460 08/12/2039	0.01
GNR 2012-141 WI IO 03.5000 11/20/2041	0.01
SEK/USD 09/19/2018 UBS	0.01
CSFB 2005-C3 B 04.8820 07/15/2037	0.01
NZD/USD 07/18/2018 HSBCB	0.01
FHR 3747 SA IO 04.4268 10/15/2040	0.01
GNR 2010-35 QI IO 04.5000 03/20/2040	0.01
FLIR US P R 07/05/22 CI	0.01
SEK/USD 09/19/2018 RBSF	0.01
CMB CMBX.NA.BB.6 2063-05-11 500.0 05/11/2063 GS	0.01
3.15 R ISWP FWD NFIX3MID P 09/19/2028	0.01
POU CHEN	0.01
NZD/USD 07/18/2018 BANKAM	0.01
ITAUSA-INVESTIMENTOS ITAU-PR	0.01
JPY/USD 08/16/2018 BANKAM	0.01
CAD/USD 07/18/2018 JPMCB	0.01
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 MS	0.01
BSCMS 2006-PW11 C P/P 144A05.2830 03/11/2039	0.01
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 GS	0.01
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 JP	0.01
SEK/USD 09/19/2018 HSBCB	0.01
SEK/USD 09/19/2018 BANKAM	0.01
SEK/USD 09/19/2018 BCAP-FX	0.01
POUND STERLING CALL ACCOUNT	0.01

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HUBS US P R 07/05/22 CI	0.01
BANK NEGARA INDONESIA PERSER	0.01
OI US P US0001M R 07/05/22 CI	0.01
IQV US P R 07/05/22 CI	0.01
1.80 R ISWP FWD NOKOIB6M P 09/19/2023	0.01
PETROBRAS GLOBAL FINANCE REGS 05.2990 01/27/2025	0.01
LBUBS 2006-C6 C 05.4820 09/15/2039	0.01
GNR 2012-71 JI IO 03.5000 04/16/2041	0.01
EXTR US P US0001M R 07/05/22 CI	0.01
GTT US P US0001M R 07/05/22 CI	0.01
JPY/USD 08/16/2018 CSI-FX	0.01
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 JP	0.01
0.134 R ISWP JPL6M P 05/17/2023	0.01
3.00 R ISWP FWD US0003M P 09/19/2028	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CS	0.00
SWPTN 1YX1Y P 1.919 USD 08/15/2018 JP	0.00
TGI US P R 07/05/22 CI	0.00
SWPTN 1YX1Y P 1.9325 USD 08/16/2018 BA	0.00
PNFP US P R 07/05/22 CI	0.00
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 GS	0.00
ARGENTINE PESO CALL ACCOUNT	0.00
MDRX US P US0001M R 07/05/22 CI	0.00
GCP US P US0001M R 07/05/22 CI	0.00
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 CS	0.00
GSVIVVOL R 0.3 P 12/15/20 GS	0.00
GNR 2013-90 HI IO 03.5000 04/20/2040	0.00
SMCI US P R 07/05/22 CI	0.00
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 JP	0.00
TWD/USD 08/16/2018 BANKAM	0.00
PCTY US P R 07/05/22 CI	0.00
INGN US P R 07/05/22 CI	0.00
MB US P US0001M R 07/05/22 CI	0.00
1.20 R ISWP FWD SES3M P 09/19/2028	0.00
SEK/USD 09/19/2018 CSI-FX	0.00
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 JP	0.00
2.50 R ISWP FWD CDOR03 P 09/19/2023	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CG	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CG	0.00
-0.05 R ISWP FWD CHL6M P 09/19/2023	0.00
0.30 R ISWP FWD EUR006M P 09/19/2023	0.00
2.20 R ISWP FWD NOKOIB6M P 09/19/2028	0.00
GSVIVVOL R 0.3 P 12/15/20 GS	0.00
NOK/USD 09/19/2018 GSFY	0.00
CERN US P R 07/05/22 CI	0.00
IOS.FN30.400.14 P US0001M R 01/12/45 JP	0.00

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EFII US P R 07/05/22 CI	0.00
GSVIWVOL R 0.3 P 12/15/20 GS	0.00
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 JP	0.00
NZD/USD 07/18/2018 CSI-FX	0.00
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 GS	0.00
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 JP	0.00
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 JP	0.00
EUR/USD 09/19/2018 CSI-FX	0.00
EUR/USD 09/19/2018 BANKAM	0.00
JPY/USD 08/16/2018 UBS	0.00
SWPTN 2YX28Y R 2.7175 USD 01/24/2019 BA	0.00
SWPTN 2YX30Y R 2.79 USD 02/15/2019 JP	0.00
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 JP	0.00
UBNT US P R 07/05/22 CI	0.00
SWPTN 4YX1Y P 2.25 USD 08/16/2021 JP	0.00
GBP/USD 09/19/2018 GSFY	0.00
SWPTN 4YX1Y P 2.2625 USD 08/16/2021 BA	0.00
GMACC 2004-C3 X1 IO P/P 144A 01.1038 12/10/2041	0.00
BABY US P US0001M R 07/05/22 CI	0.00
THE EURO EUR CALL ACCOUNT	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 CG	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 ML	0.00
CMB CMBX.NA.BB.9 2058-09-17 500.0 09/17/2058 ML	0.00
MBX.GII30.450.10 R USL1M P 01/12/41 CS	0.00
1.35 R ISWP FWD GBL6M P 09/19/2023	0.00
CAD/USD 07/18/2018 GSFY	0.00
SWPTN 2YX10Y R 2.413 USD 06/03/2019 BA	0.00
SWPTN 2YX10Y R 2.42 USD 06/03/2019 CI	0.00
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 JP	0.00
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 JP	0.00
CMB CMBX.NA.BB.6 2063-05-11 500.0 05/11/2063 JP	0.00
NOK/USD 09/19/2018 BANKAM	0.00
NOK/USD 09/19/2018 JPMCB	0.00
NOK/USD 09/19/2018 UBS	0.00
IOS.FN30.400.14 P USL1M R 01/12/45 JP	0.00
0.11375 R ISWP JPL6M P 05/31/2023	0.00
SWPTN 2YX30Y P 2.79 USD 02/15/2019 JP	0.00
TWD/USD 08/16/2018 GSFY	0.00
CMB CMBX.NA.BB.7 2047-01-17 500.0 01/17/2047 CG	0.00
AJRD US P R 07/05/22 CI	0.00
SWPTN 2YX5Y P 2.203 USD 06/03/2019 BA	0.00
SWPTN 2YX5Y P 2.205 USD 06/03/2019 BC	0.00
JPY/USD 08/16/2018 SSBT	0.00
ACIW US P R 07/05/22 CI	0.00
GBP/USD 09/19/2018 CSI-FX	0.00

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MLCFC 2006-4 XC IO P/P 144A 00.7100 12/12/2049	0.00
SWPTN 2YX28Y P 2.7175 USD 01/24/2019 BA	0.00
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 JP	0.00
IOS.FN30.350.12 P USL1M R 01/12/43 GS	0.00
JPY/USD 08/16/2018 WPAC	0.00
SWPTN 4YX1Y R 2.2625 USD 08/16/2021 BA	0.00
SWPTN 4YX1Y R 2.25 USD 08/16/2021 JP	0.00
DBD US P R 07/05/22 CI	0.00
EUR/SEK PUT 10.00 20180809 HSBCB	0.00
SWPTN 6MX2Y P 2.68 USD 07/16/2018 JP	0.00
GNR 2011-116 IB IO 05.0000 10/20/2040	0.00
EUR/USD 09/19/2018 CITI	0.00
IOS.FN30.400.10 P USL1M R 01/12/41 CS	0.00
UA US P R 07/05/22 CI	0.00
NOK/USD 09/19/2018 BCAP-FX	0.00
IOS.FN30.350.12 P USL1M R 01/12/43 BC	0.00
2.90 R ISWP FWD US0003M P 09/19/2023	0.00
IOS.FN30.300.13 P USL1M R 01/12/44 GS	0.00
GBP/USD 09/19/2018 BANKAM	0.00
3.00 R ISWP FWD US0003M P 09/19/2048	0.00
NOK/USD 09/19/2018 CITI	0.00
SWPTN 7YX5Y P 2.647 USD 06/03/2024 BA	0.00
NOK/USD 09/19/2018 SSBT	0.00
NOK/SEK PUT 1.075 20180712 BCAP-FX	0.00
NOK/SEK PUT 1.075 20180712 GSFX	0.00
SWPTN 7YX5Y P 2.654 USD 06/03/2024 CI	0.00
NOK/SEK PUT 1.0735 20180712 HSBCB	0.00
CMB CMBX.NA.A.7 2047-01-17 200.0 01/17/2047 GS	0.00
CTB US P R 07/05/22 CI	0.00
SWPTN 2YX3Y P 2.43 USD 02/15/2019 BC	0.00
SWPTN 1YX5Y R 2.695 USD 10/04/2018 GS	0.00
SOUTH AFRICAN RAND CALL ACCOUNT	0.00
SWPTN 6MX1Y R 2.47 USD 08/14/2018 CI	0.00
TAIWAN DOLLAR CALL ACCOUNT	0.00
TURKISH LIRA-NEW CALL ACCOUNT	0.00
S&P MID 400 EMINI SEP18 FAU8	0.00
S&P500 EMINI FUT SEP18 ESU8	0.00
TOPIX INDX FUTR SEP18 TPU8	0.00
US 10YR NOTE (CBT)SEP18 TYU8	0.00
SWPTN 1YX1Y R 1.9175 USD 10/04/2018 GS	0.00
SWPTN 1YX1Y R 1.919 USD 08/15/2018 JP	0.00
SWPTN 1YX1Y R 1.9325 USD 08/16/2018 BA	0.00
SWPTN 1YX1Y R 2.25 USD 08/15/2018 JP	0.00
SWPTN 1YX1Y R 2.2625 USD 08/16/2018 BA	0.00
EBIX US P R 07/05/22 CI	0.00

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SWPTN 10YX20Y P 2.8175 USD 03/23/2027 GS	0.00
SWPTN 6MX1Y R 2.6325 USD 08/14/2018 CI	0.00
IOS.FN30.400.10 R USL1M P 01/12/41 BC	0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 JP	0.00
SWPTN 1YX1Y R 2.3025 USD 10/04/2018 GS	0.00
IOS.FN30.400.10 R USL1M P 01/12/41 CI	0.00
IOS.FN30.350.12 R USL1M P 01/12/43 CS	0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 JP	0.00
IOS.FN30.400.10 R USL1M P 01/12/41 JP	0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 JP	0.00
IOS.FN30.400.10 R USL1M P 01/12/41 BA	0.00
IOS.FN30.400.10 R USL1M P 01/12/41 BA	0.00
IOS.FN30.650.67 R USL1M P 01/12/38 BC	0.00
SWPTN 10YX20Y R 2.8175 USD 03/23/2027 GS	0.00
SWPTN 2YX1Y R 1.919 USD 08/15/2019 JP	0.00
SWPTN 2YX1Y R 1.9325 USD 08/16/2019 BA	0.00
SWPTN 2YX8Y P 2.5925 USD 01/24/2019 BA	0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	0.00
SPY 20180713 C 285.00BANKAM	0.00
SWPTN 10YX20Y P 2.785 USD 01/25/2027 BA	0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 CS	0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 JP	0.00
SWEDISH KRONA CALL ACCOUNT	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00
SWPTN 2YX3Y R 2.43 USD 02/15/2019 BC	0.00
EUR/USD 09/19/2018 UBS	0.00
EUR/USD 09/19/2018 JPMCB	0.00
EUR/USD 09/19/2018 BCAP-FX	0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	0.00
PKI US P US0001M R 07/05/22 CI	0.00
2.60 R ISWP FWD CDOR03 P 09/19/2028	0.00
0.50 R ISWP FWD SES3M P 09/19/2023	0.00
SWPTN 7YX5Y R 2.654 USD 06/03/2024 CI	0.00
SWPTN 7YX5Y R 2.647 USD 06/03/2024 BA	0.00
GSVICUB3 R 0.45 P 12/15/20 GS	0.00
KN US P US0001M R 07/05/22 CI	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	0.00
SWPTN 5YX30Y P 2.8325 USD 02/15/2022 JP	0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 CS	0.00
CAD/USD 07/18/2018 BCAP-FX	0.00
SWPTN 10YX20Y R 2.785 USD 01/25/2027 BA	0.00
GBP/USD 09/19/2018 SSBT	0.00

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GBP/USD 09/19/2018 JPMCB	0.00
SWPTN 2YX10Y P 2.42 USD 06/03/2019 CI	0.00
SWPTN 2YX5Y R 2.205 USD 06/03/2019 BC	0.00
JPY/USD 08/16/2018 RBSF	0.00
SWPTN 2YX10Y P 2.413 USD 06/03/2019 BA	0.00
SWPTN 2YX5Y R 2.203 USD 06/03/2019 BA	0.00
IOS.FN30.350.14 R USL1M P 01/12/45 CS	0.00
SWPTN 2YX8Y R 2.5925 USD 01/24/2019 BA	0.00
IOS.FN30.350.12 R USL1M P 01/12/43 CS	0.00
IOS.FN30.400.14 R USL1M P 01/12/45 CS	0.00
IOS.FN30.400.14 R USL1M P 01/12/45 GS	0.00
CMB CMBX.NA.A.6 2063-05-11 200.0 05/11/2063 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00
GSVICUB3 R 0.45 P 12/15/20 GS	0.00
GSVICUB3 R 0.45 P 12/15/20 GS	0.00
EPAY US P US0001M R 07/05/22 CI	0.00
SWPTN 5YX30Y R 2.8325 USD 02/15/2022 JP	0.00
EUR/USD 09/19/2018 RBSF	0.00
SWPTN 1YX1Y P 2.2625 USD 08/16/2018 BA	0.00
SWPTN 1YX1Y P 2.25 USD 08/15/2018 JP	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BA	0.00
OSK US P US0001M R 07/05/22 CI	0.00
2.875 R ISWP FWD US0003M P 09/19/2020	0.00
JPY/USD 08/16/2018 GSFY	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00
EUR/USD 09/19/2018 GSFY	0.00
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	0.00
SWPTN 1YX2Y P 2.77 USD 01/16/2019 JP	0.00
IOS.FN30.400.14 R USL1M P 01/12/45 CS	0.00
PBH US P US0001M R 07/05/22 CI	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00
JPY/USD 08/16/2018 BCAP-FX	0.00
EUR/USD 09/19/2018 SSBT	0.00
OMCL US P US0001M R 07/05/22 CI	0.00
ICLR US P R 07/05/22 CI	0.00

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JPY/USD 08/16/2018 HSBCB	0.00
2.90 R ISWP FWD AUDBB6M P 09/19/2028	0.00
0.30125 R ISWP JPL6M P 05/31/2028	0.00
SPY 20180727 C 282.00BANKAM	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
GBP/USD 09/19/2018 BCAP-FX	0.00
JPY/USD 08/16/2018 CITI	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 BC	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00
GSVIVV69 R 0.3 P 12/15/20 GS	0.00
SWPTN 1YX2Y P 2.813 USD 01/28/2019 BC	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
DY US P R 07/05/22 CI	0.00
SXT US P US0001M R 07/05/22 CI	0.00
GBP/USD 09/19/2018 HSBCB	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	0.00
GSVIVV69 R 0.3 P 12/15/20 GS	0.00
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	0.00
NEW ZEALAND DOLLAR CALL ACCOUNT	0.00
SWPTN 1YX2Y P 2.663 USD 01/14/2019 CI	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	0.00
AUD/USD 07/18/2018 UBS	0.00
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 GS	0.00
LIVN US P US0001M R 07/05/22 CI	0.00
CAD/USD 07/18/2018 SSBT	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
JPY/USD 08/16/2018 JPMCB	0.00
SWPTN 2YX1Y P 1.9325 USD 08/16/2019 BA	0.00
SWPTN 2YX1Y P 1.919 USD 08/15/2019 JP	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	0.00
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
BGS US P R 07/05/22 CI	-0.01
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 BC	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01
WST US P R 07/05/22 CI	-0.01
CNH/USD 08/16/2018 HSBCB	-0.01

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CNH/USD 08/16/2018 GSFY	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01
GSVIVV69 R 0.3 P 12/15/20 GS	-0.01
0.333 R ISWP JPL6M P 05/17/2028	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.01
2.55 R ISWP FWD AUDBB6M P 09/19/2023	-0.01
2.70 R ISWP FWD NFIX3MID P 09/19/2023	-0.01
GSVIUS85 R 0.45 P 12/15/20 GS	-0.01
PTC US P R 07/05/22 CI	-0.01
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 CS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.01
SNA US P R 07/05/22 CI	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 MS	-0.01
COTY US P US0001M R 07/05/22 CI	-0.01
BDC US P US0001M R 07/05/22 CI	-0.01
EPC US P US0001M R 07/05/22 CI	-0.01
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.02
AUD/USD 07/18/2018 HSBCB	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.02
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 GS	-0.02
AUD/USD 07/18/2018 CITI	-0.02
AUD/USD 07/18/2018 WPAC	-0.02
AUD/USD 07/18/2018 SSBT	-0.03
AUD/USD 07/18/2018 JPMCB	-0.03
GSVIUS85 R 0.45 P 12/15/20 GS	-0.03
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.03
AUD/USD 07/18/2018 BANKAM	-0.03
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CG	-0.03
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.03
2.95 R ISWP FWD US0003M P 09/19/2023	-0.03
AUD/USD 07/18/2018 BCAP-FX	-0.04
HBI US P R 07/05/22 CI	-0.04
AUD/USD 07/18/2018 GSFY	-0.04
MTZ US P US0001M R 07/05/22 CI	-0.04
NDUEEGF P US0001M R 08/21/18 UB	-0.04
TSLA US P R 07/05/22 CI	-0.04
K US P R 07/05/22 CI	-0.04
CMB CMBX.NA.BBB-.7 2047-01-17 300.0 01/17/2047 CS	-0.05
AUD/USD 07/18/2018 CSI-FX	-0.05
NKE US P R 07/05/22 CI	-0.06

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CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 ML	-0.06
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 JP	-0.07
RU10INTR P US0003M R 11/27/18 CI	-0.07
CMB CMBX.NA.BBB-.6 2063-05-11 300.0 05/11/2063 CS	-0.08
RH US P US0001M R 07/05/22 CI	-0.08
GSISXT7E R 0.2 P 12/15/20 GS	-0.09
RU10INTR P US0003M R 11/27/18 CI	-0.12
RU10INTR P US0003M R 07/26/18 CS	-0.20
GSCBPUR1 R US0001M P 12/15/20 GS	-0.23
GSCBPUR1 R US0001M P 12/15/20 GS	-0.26
CGPUTQL2 R US0003M P 11/27/18 CI	-0.39
NDUEEGF P US0001M R 12/12/18 GS	-0.47
GSGLPWDL R US0001M P 12/15/20 GS	-0.66
GSGLPW2L R US0001M P 12/15/20 GS	-1.03
NDUEEGF P US0003M R 09/20/18 CI	-1.12
MLFCF14 R US0003M P 06/13/19 BA	-1.14
NDUEEGF P US0003M R 03/19/19 CI	-2.44
NDUEEGF P US0001M R 08/21/18 UB	-7.70