



# Side-Channel Analysis Method (Spectre & Meltdown) Security Review List of affected Fujitsu Products

Malicious code utilizing a new method of side-channel analysis and running locally on a normally operating platform has the potential to allow the inference of data values from memory. This issue takes advantage of techniques commonly used in many modern processor architectures.

Reference: Security vulnerabilities ([CVE 2017- 5715](#), [CVE 2017- 5753](#), [CVE 2017- 5754](#), [SA-00088](#))

Last revised:  
June 18, 2018

### Notes

- This is an overview of affected Fujitsu products.
- This list is updated regularly (affected products, dates and BIOS versions).

### OEM Mainboard

Affected Mainboard	New BIOS (w fix)	BIOS release date	OS update needed
D3003-S1	t.b.d.	release date not yet confirmed	Yes
D3003-S2	t.b.d.	release date not yet confirmed	Yes
D3003-S3	t.b.d.	release date not yet confirmed	Yes
D3071-S1	t.b.d.	release date not yet confirmed	Yes
D3076-S1	t.b.d.	release date not yet confirmed	Yes
D3128-B1	R1.18.0	cw 27	Yes
D3128-B2	R1.8.0	cw 27	Yes
D3161-B1	t.b.d.	release date not yet confirmed	Yes
D3162-B1	t.b.d.	release date not yet confirmed	Yes
D3220-B1	R1.45.0	cw 28	Yes
D3221-B1	R1.45.0	cw 28	Yes
D3222-B1	R1.45.0	cw 28	Yes
D3223-B1	R1.45.0	cw 28	Yes
D3231-S1	t.b.d.	release date not yet confirmed	Yes
D3235-S1	t.b.d.	release date not yet confirmed	Yes
D3236-S1	t.b.d.	release date not yet confirmed	Yes
D3240-B1	R1.45.0	cw 28	Yes
D3243-S1	t.b.d.	release date not yet confirmed	Yes

D3313-S1	t.b.d.	cw 26	Yes
D3313-S2	t.b.d.	cw 26	Yes
D3313-S3	t.b.d.	cw 26	Yes
D3313-S4	t.b.d.	cw 26	Yes
D3313-S5	t.b.d.	cw 26	Yes
D3313-S6	t.b.d.	cw 26	Yes
B3348-B1	R1.13.0	available	Yes
B3348-B2	R1.14.0	available	Yes
D3400-B1	R1.25.0	available	Yes
D3400-B2	R1.17.0	available	Yes
D3401-B1	R1.25.0	available	Yes
D3401-B2	R1.17.0	available	Yes
D3401-H1	R1.25.0	available	Yes
D3402-B1	R1.25.0	available	Yes
D3402-B2	R1.17.0	available	Yes
D3410-B1	R1.25.0	available	Yes
D3410-B2	R1.17.0	available	Yes
D3417-B1	R1.25.0	available	Yes
D3417-B2	R1.17.0	available	Yes
D3433-S1	R1.21.0	available	Yes
D3433-S2	R1.16.0	available	Yes
D3434-S1	R1.21.0	available	Yes
D3434-S2	R1.16.0	available	Yes
D3441-S1	R1.21.0	available	Yes
D3441-S2	R1.16.0	available	Yes
D3445-S1	R1.21.0	available	Yes
D3446-S1	R1.21.0	available	Yes
D3446-S2	R1.16.0	available	Yes
D3474-Bx	R1.7.0	available	Yes
D3598-B1	R1.5.0	available	Yes

### Desktop PC (ESPRIMO)

Affected Model	New BIOS (w fix)	BIOS release date	OS update needed
ESPRIMO A525-L	t.b.d.	release date not yet confirmed	Yes
ESPRIMO C710	t.b.d.	release date not yet confirmed	Yes
ESPRIMO C720	R1.45.0	cw 28	Yes
ESPRIMO C910-L	t.b.d.	release date not yet confirmed	Yes
ESPRIMO E420	R1.45.0	cw 28	Yes
ESPRIMO E510	t.b.d.	release date not yet confirmed	Yes
ESPRIMO E520	R1.45.0	cw 28	Yes
ESPRIMO E710	t.b.d.	release date not yet confirmed	Yes
ESPRIMO E720	R1.45.0	cw 28	Yes

ESPRIMO E910	t.b.d.	release date not yet confirmed	Yes
ESPRIMO E920	R1.45.0	cw 28	Yes
ESPRIMO K557	R1.7.0	available	Yes
ESPRIMO P420	R1.45.0	cw 28	Yes
ESPRIMO P510	t.b.d.	release date not yet confirmed	Yes
ESPRIMO P520	R1.45.0	cw 28	Yes
ESPRIMO P710	t.b.d.	release date not yet confirmed	Yes
ESPRIMO P720	R1.45.0	cw 28	Yes
ESPRIMO P910	t.b.d.	release date not yet confirmed	Yes
ESPRIMO P920	R1.45.0	cw 28	Yes
ESPRIMO PH320	R1.45.0	cw 28	Yes
ESPRIMO P420	R1.45.0	cw 28	Yes
ESPRIMO PH521	R1.45.0	cw 28	Yes
ESPRIMO D556 (E85+;E90+;E94+ PPC)	R1.25.0	available	Yes
ESPRIMO D556/2 (E85+;E90+)	R1.17.0	available	Yes
ESPRIMO D756 (E85+;E90+;E94+)	R1.25.0	available	Yes
ESPRIMO D757 (E85+;E90+;E94+)	R1.17.0	available	Yes
ESPRIMO D956 (E85+;E90+;E94+;LL)	R1.25.0	available	Yes
ESPRIMO D957 (E85+;E90+;E94+)	R1.17.0	available	Yes
ESPRIMO P556 / PH556	R1.25.0	available	Yes
ESPRIMO P556/2	R1.17.0	available	Yes
ESPRIMO P557	R1.17.0	available	Yes
ESPRIMO P756 (E85+;E90+;E94+)	R1.25.0	available	Yes
ESPRIMO P757 (E85+;E90+;E94+)	R1.17.0	available	Yes
ESPRIMO P956 (E85+;E90+;E94+;LL)	R1.25.0	available	Yes
ESPRIMO P957 (E85+;E90+;E94+;POWER)	R1.17.0	available	Yes
ESPRIMO Q510	t.b.d.	release date not yet confirmed	Yes
ESPRIMO Q520	R1.45.0	cw 28	Yes
ESPRIMO Q556	R1.25.0	available	Yes
ESPRIMO Q556/2	R1.17.0	available	Yes
ESPRIMO Q910	t.b.d.	release date not yet confirmed	Yes
ESPRIMO Q920, Q920/MRE	R1.45.0	cw 28	Yes
ESPRIMO Q956, Q956/MRE	R1.25.0	available	Yes
ESPRIMO Q957, Q957/MRE	R1.17.0	available	Yes
ESPRIMO X923, X923T	R1.45.0	cw 28	Yes
ESPRIMO X913, X913T	t.b.d.	release date not yet confirmed	Yes
ESPRIMO X956, X956T	R1.25.0	available	Yes

### Workstation (CELSIUS)

Affected Model	New BIOS (w fix)	BIOS release date	OS update needed
CELSIUS C620	t.b.d.	release date not yet confirmed	Yes
CELSIUS C740	R1.6.0 (Haswell)	available	Yes

	R1.8.0 (Broadwell)	available	
CELSIUS J550	R1.25.0	available	Yes
CELSIUS J550/2	R1.17.0	available	Yes
CELSIUS M470, M470power, M470 Ultra, M470-2, M470-2 power	t.b.d.	release date not yet confirmed	Yes
CELSIUS M720, M720power	R1.18.0	cw 27	Yes
CELSIUS M730, M730power	R1.8.0	cw 27	Yes
CELSIUS M740, M740power	R1.13.0 (Haswell) R1.14.0 (Broadwell)	available available	Yes
CELSIUS M770	R1.5.0	available	Yes
CELSIUS R920, R920power	R1.18.0	cw 27	Yes
CELSIUS R930, R930power	R1.8.0	cw 27	Yes
CELSIUS R940, R940power	R1.13.0 (Haswell) R1.14.0 (Broadwell)	available available	Yes
CELSIUS R970	R1.7.0	available	Yes
CELSIUS W420	t.b.d.	release date not yet confirmed	Yes
CELSIUS W510	t.b.d.	release date not yet confirmed	Yes
CELSIUS W520	t.b.d.	release date not yet confirmed	Yes
CELSIUS W530	R1.45.0	cw 28	Yes
CELSIUS W550, W550power	R1.25.0	available	Yes
CELSIUS W570power, CELSIUS W570power+	R1.17.0	available	Yes

### Thin/Future Client (FUTRO)

Affected Model	New BIOS (w fix)	BIOS release date	OS update needed
FUTRO S520	t.b.d.	cw 26	Yes
FUTRO S700	t.b.d.	release date not yet confirmed	Yes
FUTRO S720	t.b.d.	cw 26	Yes
FUTRO S900	t.b.d.	release date not yet confirmed	Yes
FUTRO S920	t.b.d.	cw 26	Yes
FUTRO S930	t.b.d.	cw 26	Yes
FUTRO X913, X913T	t.b.d.	release date not yet confirmed	Yes
FUTRO X923, X923T	t.b.d.	cw 26	Yes

### Mobile (LIFEBOOK/STYLISTIC/CELSIUS)

Affected Model	New BIOS (w fix)	BIOS release date	OS update needed
LIFEBOOK A512	t.b.d.	release date not yet confirmed	Yes
LIFEBOOK A514	t.b.d.	release date not yet confirmed	Yes
LIFEBOOK A532	t.b.d.	release date not yet confirmed	Yes
LIFEBOOK A544	t.b.d.	release date not yet confirmed	Yes
LIFEBOOK A555 / A555G	t.b.d.	release date not yet confirmed	Yes
LIFEBOOK A556 / A556G	V1.24	available	Yes

LIFEBOOK A557	t.b.d.	release date not yet confirmed	Yes
LIFEBOOK AH502	t.b.d.	release date not yet confirmed	Yes
LIFEBOOK AH512	t.b.d.	release date not yet confirmed	Yes
LIFEBOOK AH532/G32	t.b.d.	release date not yet confirmed	Yes
LIFEBOOK AH532/G32	t.b.d.	release date not yet confirmed	Yes
LIFEBOOK AH544/G32	t.b.d.	release date not yet confirmed	Yes
LIFEBOOK AH564	t.b.d.	release date not yet confirmed	Yes
LIFEBOOK E448	V1.08	available	Yes
LIFEBOOK E458	V1.08	available	Yes
LIFEBOOK E544	V1.12	available	Yes
LIFEBOOK E546 non vPro	V1.28	available	Yes
LIFEBOOK E546 vPro	V1.21	available	Yes
LIFEBOOK E554	V1.12	available	Yes
LIFEBOOK E556 non vPro	V1.28	available	Yes
LIFEBOOK E556 vPro	V1.21	available	Yes
LIFEBOOK E547 non vPro	V1.11	available	Yes
LIFEBOOK E547 vPro	V1.15	available	Yes
LIFEBOOK E548	V1.08	available	Yes
LIFEBOOK E557 non vPro	V1.11	available	Yes
LIFEBOOK E557 vPro	V1.15	available	Yes
LIFEBOOK E558	V1.08	available	Yes
LIFEBOOK E733	V1.12	available	Yes
LIFEBOOK E734 non vPro	V1.24	available	Yes
LIFEBOOK E734 vPro	V1.33	available	Yes
LIFEBOOK E736 non vPro	V1.29	available	Yes
LIFEBOOK E736 vPro	V1.23	available	Yes
LIFEBOOK E743	V1.12	available	Yes
LIFEBOOK E744 vPro	V1.33	available	Yes
LIFEBOOK E744 non vPro	V1.24	available	Yes
LIFEBOOK E746 non vPro	V1.29	available	Yes
LIFEBOOK E746 vPro	V1.23	available	Yes
LIFEBOOK E752 non vPro	V1.17	available	Yes
LIFEBOOK E752 vPro (Win8)	V2.17	available	Yes
LIFEBOOK E752 non vPro (Win8)	V2.14	available	Yes
LIFEBOOK E753	V1.12	available	Yes
LIFEBOOK E754 non vPro	V1.24	available	Yes
LIFEBOOK E754 vPro	V1.33	available	Yes
LIFEBOOK E756 non vPro	V1.29	available	Yes
LIFEBOOK E756 vPro	V1.23	available	Yes
LIFEBOOK E782 vPro (Win8)	V1.19 V2.17 (Win8)	available	Yes
LIFEBOOK P702	V1.19 V2.11 (Win8)	available	Yes
LIFEBOOK P727	V1.14	available	Yes
LIFEBOOK P728	V1.07	available	Yes

LIFEBOOK P772	V1.15 V2.14 (Win8)	available	Yes
LIFEBOOK S752 non vPro	V1.17	available	Yes
LIFEBOOK S752 vPro	V1.19 V2.14 (Win8)	available	Yes
LIFEBOOK S752 non vPro (Win8)	V2.14	available	Yes
LIFEBOOK S762 non vPro	V1.15 V2.13 (Win8)	cw 25	Yes
LIFEBOOK S782 vPro	V1.19 V2.17 (Win8)	available	Yes
LIFEBOOK S792 vPro	V1.14 V2.15 (Win8)	cw 25	Yes
LIFEBOOK S904 vPro	V1.26	available	Yes
LIFEBOOK S935	V1.18	available	Yes
LIFEBOOK S936	V1.20	available	Yes
LIFEBOOK S937	V1.09	available	Yes
LIFEBOOK S938	V1.08	available	Yes
LIFEBOOK T725	V1.20	available	Yes
LIFEBOOK T726	V1.17	available	Yes
LIFEBOOK T734 non vPro	V1.13	available	Yes
LIFEBOOK T734 vPro	V1.15	available	Yes
LIFEBOOK T902	V1.06 V2.13 (Win8)	available	Yes
LIFEBOOK T904	V1.18	available	Yes
LIFEBOOK T732 vPro	V1.11	available	Yes
LIFEBOOK T732 non vPro	V1.10	cw 25	Yes
LIFEBOOK T935	V1.20	available	Yes
LIFEBOOK T936	V1.17	available	Yes
LIFEBOOK T937	V1.15	available	Yes
LIFEBOOK T938	V1.05	available	Yes
LIFEBOOK U554	V1.32	cw 25	Yes
LIFEBOOK U574	V1.32	cw 25	Yes
LIFEBOOK U727	V1.21	available	Yes
LIFEBOOK U727 (6 <sup>th</sup> Gen.)	V1.07	available	Yes
LIFEBOOK U728	V1.09	available	Yes
LIFEBOOK U745	V1.22	available	Yes
LIFEBOOK U747	V1.21	available	Yes
LIFEBOOK U747 (6 <sup>th</sup> Gen.)	V1.07	available	Yes
LIFEBOOK U748	V1.09	available	Yes
LIFEBOOK U757	V1.21	available	Yes
LIFEBOOK U757 (6 <sup>th</sup> Gen.)	V1.07	available	Yes
LIFEBOOK U758	V1.09	available	Yes
LIFEBOOK U772	V1.12 V2.13 (Win8)	available	Yes
LIFEBOOK UH572	V1.10	cw 25	Yes
LIFEBOOK UH572 (Win8)	V2.19	cw 25	Yes
LIFEBOOK U904	V1.17	available	Yes

LIFEBOOK U937	V1.12	available	Yes
LIFEBOOK U938	V1.09	available	Yes
STYLISTIC Q555	V2.23	cw 26	Yes
STYLISTIC Q584	V1.33 V3.14 (64 bit)	available	Yes
STYLISTIC Q616	V1.14	available	Yes
STYLISTIC Q665	V1.16	available	Yes
STYLISTIC Q702 vPro	V2.23	cw 25	Yes
STYLISTIC Q702 non vPro	V2.21	cw 25	Yes
STYLISTIC Q704 non vPro	V1.34	available	Yes
STYLISTIC Q704 vPro	V1.39	available	Yes
STYLISTIC Q736	V1.17	available	Yes
STYLISTIC Q775	V1.21	available	Yes
STYLISTIC R726 non vPro	V1.19	available	Yes
STYLISTIC R726 vPro	V1.19	available	Yes
STYLISTIC R727 non vPro	V1.18	available	Yes
STYLISTIC R727 vPro	V1.18	available	Yes
STYLISTIC V535	t.b.d.	release date not yet confirmed	Yes
CELSIUS H720	V1.11 V2.15	cw 25	Yes
CELSIUS H730	V1.19	available	Yes
CELSIUS H760	V1.23	available	Yes
CELSIUS H770	V1.12	available	Yes
CELSIUS H920	V1.06 V2.10 (Win8)	cw 25	Yes
CELSIUS H970	V1.13	cw 26	Yes

### NAS (CELVIN)

Affected Model	New FW (w fix)	FW release date
CELVIN NAS Q800	t.b.d.	release date not yet confirmed
CELVIN NAS Q802	t.b.d.	release date not yet confirmed
CELVIN NAS Q805	t.b.d.	release date not yet confirmed
CELVIN NAS Q902	t.b.d.	release date not yet confirmed
CELVIN NAS Q905	t.b.d.	release date not yet confirmed
CELVIN NAS QE705	t.b.d.	release date not yet confirmed
CELVIN NAS QE707	t.b.d.	release date not yet confirmed
CELVIN NAS QE805	t.b.d.	release date not yet confirmed
CELVIN NAS QE807	t.b.d.	release date not yet confirmed
CELVIN NAS QR802	t.b.d.	release date not yet confirmed
CELVIN NAS QR806	t.b.d.	release date not yet confirmed
CELVIN NAS QR1006	t.b.d.	release date not yet confirmed

**PRIMERGY/PRIMEQUEST server**

Affected Model	New BIOS (w fix)	BIOS release date	OS update needed
PRIMERGY BX920 S2	3D99	available	yes
PRIMERGY BX922 S2	3D99	available	yes
PRIMERGY BX924 S2	3D99	available	yes
PRIMERGY BX920 S3	2.28.0	available	yes
PRIMERGY BX924 S3	2.28.0	available	yes
PRIMERGY BX920 S4	1.17.0	available	yes
PRIMERGY BX924 S4	1.17.0	available	yes
PRIMERGY BX2560 M1	1.34.0	available	yes
PRIMERGY BX2580 M1	1.34.0	available	yes
PRIMERGY BX2560 M2	1.13.0	available	yes
PRIMERGY BX2580 M2	1.13.0	available	yes
PRIMERGY CX250 S1	3C19	available	yes
PRIMERGY CX270 S1	3C19	available	yes
PRIMERGY CX272 S1	3A18	available	yes
PRIMERGY CX250 S2	4A72	available	yes
PRIMERGY CX270 S2	4A72	available	yes
PRIMERGY CX2550 M1	1.34.0	available	yes
PRIMERGY CX2570 M1	1.34.0	available	yes
PRIMERGY CX2550 M2	1.13.0	available	yes
PRIMERGY CX2570 M2	1.13.0	available	yes
PRIMERGY CX2550 M4	1.26.0	available	yes
PRIMERGY CX2560 M4	1.26.0	available	yes
PRIMERGY CX2570 M4	1.26.0	available	yes
PRIMERGY CX1640 M1	1.14.0	available	yes
PRIMERGY MX130 S2	-	no update planned	yes
PRIMERGY RX100 S7	1.28.0	available	yes
PRIMERGY RX100 S7p	1.28.0	available	yes
PRIMERGY RX100 S8	2.16.0	available	yes
PRIMERGY RX1330 M1	2.16.0	available	yes
PRIMERGY RX1330 M2	1.21.0	available	yes
PRIMERGY RX1330 M3	1.17.0	available	yes
PRIMERGY RX200 S6	-	No update – End of Service	yes
PRIMERGY RX200 S7	2.28.0	available	yes
PRIMERGY RX200 S8	1.18.0	available	yes
PRIMERGY RX2510 M2	1.18.0	available	yes
PRIMERGY RX2520 M1	1.20.0	available	yes
PRIMERGY RX2520 M4	1.17.0	available	yes
PRIMERGY RX2530 M1	1.35.0	available	yes



PRIMERGY RX2530 M2	1.18.0	available	yes
PRIMERGY RX2530 M4	1.17.0	available	yes
PRIMERGY RX300 S6	1.14	available	yes
PRIMERGY RX300 S7	1.30.0	available	yes
PRIMERGY RX300 S8	1.20.0	available	yes
PRIMERGY RX2540 M1	1.35.0	available	yes
PRIMERGY RX2540 M2	1.18.0	available	yes
PRIMERGY RX2540 M4	1.17.0	available	yes
PRIMERGY RX350 S7	1.30.0	available	yes
PRIMERGY RX350 S8	1.20.0	available	yes
PRIMERGY RX2560 M1	1.35.0	available	yes
PRIMERGY RX2560 M2	1.18.0	available	yes
PRIMERGY RX4770 M1	1.37.0	available	yes
PRIMERGY RX4770 M2	1.15.0	available	yes
PRIMERGY RX4770 M3	1.16.0	available	yes
PRIMERGY RX4770 M4	1.7.0	available	yes
PRIMERGY RX500 S7	1.29.0	available	yes
PRIMERGY RX600 S6	1.07	available	yes
PRIMERGY RX900 S1	99.16	available	yes
PRIMERGY RX900 S2	1.15	available	yes
PRIMERGY TX100 S3p	1.11.0	available	yes
PRIMERGY TX1 310 M1	1.9.0	available	yes
PRIMERGY TX1 310 M3	V1.17.0	available	yes
PRIMERGY TX140 S1p	1.28.0	available	yes
PRIMERGY TX140 S2	2.16.0	available	yes
PRIMERGY TX150 S7	1.20	available	yes
PRIMERGY TX150 S8	1.16.0	available	yes
PRIMERGY TX1 320 M1	2.16.0	available	yes
PRIMERGY TX1 320 M2	1.21.0	available	yes
PRIMERGY TX1 320 M3	1.17.0	available	yes
PRIMERGY TX1 20 S3p	1.28.0	available	yes
PRIMERGY TX200 S6	1.14	available	yes
PRIMERGY TX200 S7	1.16.0	available	yes
PRIMERGY TX1 330 M1	2.16.0	available	yes
PRIMERGY TX1 330 M2	1.21.0	available	yes
PRIMERGY TX1 330 M3	1.17.0	available	yes
PRIMERGY TX300 S6	1.14	available	yes
PRIMERGY TX300 S7	1.30.0	available	yes
PRIMERGY TX300 S8	1.20.0	available	yes
PRIMERGY SX150 S8	1.16.0	available	yes
PRIMERGY SX350 S8	1.20.0	available	yes
PRIMERGY TX2540 M1	1.20.0	available	yes
PRIMERGY TX2550 M4	1.17.0	available	yes
PRIMERGY TX2560 M1	1.35.0	available	yes

PRIMERGY TX2560 M2	1.18.0	available	yes
PRIMEQUEST 2400E	2.27 (BA18031)	available	yes
PRIMEQUEST 2800B	2.27 (BA18031)	available	yes
PRIMEQUEST 2800E	2.27 (BA18031)	available	yes
PRIMEQUEST 2400E2	1.77 (BB18031)	available	yes
PRIMEQUEST 2800B2	1.77 (BB18031)	available	yes
PRIMEQUEST 2800E2	1.77 (BB18031)	available	yes
PRIMEQUEST 2400E3	1.40 (BC18031)	available	yes
PRIMEQUEST 2800B3	1.40 (BC18031)	available	yes
PRIMEQUEST 2800E3	1.40 (BC18031)	available	yes
PRIMEQUEST 3400E	1.55.0 (PA18023)	available	yes
PRIMEQUEST 3800B	1.54.0	available	yes
PRIMEQUEST 3800E	1.55.0 (PA18023)	available	yes

### Retail Products

Affected Mainboard	New BIOS (w fix)	BIOS release date	OS update needed
Team PoS 7000S	R1.45.0	release date not yet confirmed	Yes
TPX II 500 Series	t.b.d.	release date not yet confirmed	Yes
TP7000A Haswell	ZR08	available	Yes
TP7000A Sandybridge	HR07	available	Yes
TeamPoS 7000 F Haswell	ZR08	available	Yes
TeamPoS 7000 F Sandybridge	HR07	available	Yes
MiniSCO	t.b.d.	release date not yet confirmed	t.b.d.
Mini Express	t.b.d.	release date not yet confirmed	t.b.d.
Genesis II	t.b.d.	release date not yet confirmed	t.b.d.
Impulse	t.b.d.	release date not yet confirmed	t.b.d.

\* cw: calendar week

