The table below lists proofs of Fermat number and Fermat cofactor compositeness that were collected from mersenneforum, papers and emails. Verifications done as part of this study are also included.
For each Fermat number or cofactor, the earliest prover is shown in **bold**. Two provers are shown in bold when their proofs were done almost simultaneously and independently.
"Proof Strength" is a grade based on all the proofs performed to date, as defined in the footnotes below the table. Note that sometimes the set of proofs that deterine the Proof Strength (highlighted) do not include the earliest proof.

	Factors	Proof Strength	Who (**Earliest**)	MF Name	When	Program	Version	Test Type	Pepin R or Type 1		Suyama (Type S) A = R^2 mod F		Suyama B = 3^(P-1) mod F		Suyama (A - B) mod C		Publication Reference	Notes
									Res 64 (hex)	Res 2^35-1 2^36-1 (dec)	Res 64 (hex)	Res 2^35-1 2^36-1 (dec)	Res 64 (hex)	Res 2^35-1 2^36-1 (dec)	Res 64 (hex)	Res 2^35-1 2^36-1 (dec)		
F20	0	A+	**Young and Buell**	-	4/6/1987	custom	-	Pepin	78791573ED3DE5F1	152658196361 35626292569	-	-	-	-	-	-	Math Comp Paper F20	Run on Cray-2 and Cray-XMP. Program called same Cray FFT libarary on both systems.
			Gary Gostin	Gary	5/9/2023	cofact	0.3	Pepin	78791573ED3DE5F1	152658196361 35626292569	-	-	-	-	-	-		
F21	1	A	**Crandall et al.**	-	11/23/1993	multiple custom	-	S	539841840	309819635973 00257643					0471		Math Comp Paper F22	F22 paper tested F19 and F21 cofactors. Amdhal and checkine workstations used different software.
			Gary Gostin	Gary	5/9/2023	cofact	0.3	S	C4A66D5398419840	309819635973 00257643	A07023647D42B4D5	123516046 31128036 7853	DA11FF47C9F2DBA7	5803823552 25506585220	146B2145AEB90471	157197075 21894233216 7		
F22	1	A	**Dmitry Domanov**	unconnected	3/26/2010	Prime95?	?	1	BEAE9F64C128741		-	-	-	-	-	-	MF 209664	
			Shoichiro Yamada	msft	4/6/2010	mprime & genefer	?	1	BEAE9F64C128741		-	-	-	-	-	-	MF 210816	
			Catherine Cowie	cxc	4/14/2023	Prime95	?	1	BEAE9F64C128741		-	-	-	-	-	-	MF 628504	
			Andrew Usher	Andrew Usher	4/15/2023	Prime95	?	1	BEAE9F64C128741		-	-	-	-	-	-	MF 628529	
			Crandall et al.	-	11/23/1993	multiple custom	-	Pepin	..............3AD9D72A	123234308 23 8733349067							Math Comp Paper F22	Proof of compositeness paper became obsolete when F22 factored in 2010
			Catherine Cowie	cxc	4/12/2023	Prime95	?	S			187A892DC7F0EC_						MF 628360	
			Gary Gostin	Gary	5/9/2023	cofact	0.3	S	77F6FA403A09D72A	123234308 23 8733349067	187A892DC7F0EC3S	21359120063 62994050515	F2F1349711581 4AD	31225537268 58598662170	8F2B6FC5A6AF96A	5450609407 30570899199		
F23	1	A	**Crandall et al.**	-	Nov 2000	multiple custom	-	S	50E1F11B55196B8B	425964265 3 60596902712	14E2143DD7E57AB8						Math Comp Paper F24	F24 paper tested F23 cofactor; 2002 Mayer email provided the date, Pepin residues, and that diff HW and SW were used to get matching Pepin residues. But no final Suyama residues were provided.
			Gary Gostin	Gary	5/10/2023	cofact	0.3	S	50E1F11B55196B8B	425964265 3 60596902712	14E2143DD7E57AB8	2724844476 10275710011	10298E52A5446CDA	3050368568 54792073816	5574287CB97265BA	8874908179 13707222996		
F24	0	A+	**Crandall et al.**	-	8/27/1999	multiple custom	-	Pepin	173117E131E106C	328982310 88 6827742455	-	-	-	-	-	-	Math Comp Paper F24	Two wavefront machines, plus checking drones running different software. Date is for the first R24 residue produced
			Gary Gostin	Garv	5/10/2023	cofact	0.3	Peoin	173117E131E106C	328982310 88 6827742455	-	-	-	-	-	-		
F25	3	A+	**Shoichiro Yamada**	msft	7/23/2009	genefer	?	1	none provided			-	-	-	-	-	MF 182339	No residues reported in Yamada's MF post or emails to Wilfrid Keller. His emails imply that he may have compared his residue to the one reported by Hoeglund.
			Andreas Hoeglund	ATH	8/3/2009	Prime95	?	1	44BFCBD231602007		-	-	-	-	-	-	MF 183825	
			"Yar"	yorix	10/30/2017	Prime95	29.3	1	44BFCBD231602007			-	-	-	-	-	MF 470621	
			"Yar"	yorix	10/28/2017	Prime95	29.4	S			7B6B087B84A45562						MF 470505	
			Ernst Mayer	ewmayer	5/13/2022	Mlucas	v21 proto	S	CB913B6E3B1FFE2A		7B6B087B84A45562	26994100025 66886679148	29098307298FA110	30348546187 21153567739	7A551893ACF4B6E4E	34178045549 65496009072	MF 605834	
			Gary Gostin	Gary	5/10/2023	cofact	0.3	S	CB913B6E3B1FFE2A	907373394 0 15369168494	7B6B087B84A45562	26994100025 66886679148	29098307298FA110	30348546187 21153567739	7A551893ACF4B6E4E	34178045549 65496009072		
			Gary Gostin	Gary	5/21/2023	mprime+cofact	30.8+0.4	S			7B6B087B84A45562	26994100025 66886679148	29098307298FA110	30348546187 21153567739	7A551893ACF4B6E4E	34178045549 65496009072		
F26	1	A+	**Andreas Hoeelund**	ATH	9/18/2009	Prime95	?	1	6C433D4E3CC9522E		-	-	-	-	-	-	MF 190270	
			"Yar"	yorix	12/21/2017	Prime95	29.4	S	6C433D4E3CC9522E								MF 474496	
			"Yar"	yorix	12/21/2017	Prime95	29.4	S			FBB4D683A281838C						MF 474496	
			Ernst Mayer	ewmayer	5/13/2022	Mlucas	v21 proto	S	285B8DE2A0C14045		FBB4D683A281838C	2193939191 7371940776	25F5AB0FFC72BC87	32173443562 20444894301	B7BD14979ACF222E	64164576 31 15466936163	MF 605834	
			Gary Gostin	Gary	5/12/2023	cofact	0.3	S	285B8DE2A0C14045	9689287987 2307231107	FBB4D683A281838C	2193939191 7371940776	25F5AB0FFC72BC87	32173443562 20444894301	B7BD14979ACF222E	64164576 31 15466936163		
			Gary Gostin	Gary	5/21/2023	mprime+cofact	30.8+0.4	S			FBB4D683A281838C	2193939191 7371940776	25F5AB0FFC72BC87	32173443562 20444894301	B7BD14979ACF222E	64164576 31 15466936163		
F27	2	A+	**Andreas Hoeglund**	ATH	4/4/2010	Prime95	?	1	481F2696 5DE16117								MF 210563	Residues each 1M iter at http://www.hoegge.dk/mersenne/F27residues.txt
			Ernst Mayer	ewmayer	5/13/2022	Mlucas	v21 proto	S	043A6CB89273B297	307103056 24 39732934618	C3B191C45CCD7820	21887650168 55240256170	485F292142F953EC	20036545122 26481669619	79E89190C5637 2B7	2608954171 29330680430	MF 605834	
			Gary Gostin	Gary	5/21/2022	mprime+cofact	30.8+0.4	S			C3B191C45CCD7820	21887650168 55240256170	485F292142F953EC	20036545122 26481669619	79E89190C5637 2B7	2608954171 29330680430		
F28	1	B+	**Ernst Mayer**	ewmayer	5/13/2022	Mlucas	v21 proto	S	468731C3E6F1338F	304767276 65 9104636564	7CAE1275836 2B2CA	204611053 24 3089428480	BD496177DB5155A0	33633822046 3778945069	790BE051D73D667E	4159568998 55362539930	MF 605834	
			Gary Gostin	Gary	running	mprime+cofact	30.8+0.4	S										
F29	1	B+	**Ernst Mayer**	ewmayer	5/13/2022	Mlucas	v21 proto	S	BECE1E5FFBE5EC12	177962693 82 1246329964	98D416D0B391BC152	32748692453 58920206666	30AFC6010F628B4B	7473784009 6544795868	AB3DBCEFFE907786	1334924320 7 41564307636	MF 605834	
			Gary Gostin	Garv	next	mprime+cofact	30.8+0.4	S										
F30	2	B+	**Ernst Mayer**	ewmayer	5/13/2022	Mlucas	v21 proto	S	A7DC2A3D898D6D9D	264255482 25 59810773698	107AA56A5428333C	30693878043 40327643421	6FB5668048203F4E	90720423 23 48656226334	EDFCE7FC50271D44	9723857098 33440198730	MF 605834	
			Gary Gostin	Gary	too large	mprime+cofact	-	S										mprime 30.8 reports that the number is too large for it's FFTs

A Matching residues (at least Res64) covering the bulk of the calculations were produced using different hardware running different software, including different math libraries.
B Matching residues (at least Res64) covering the bulk of the calculations were produced using different hardware running the same software with different configurations, such as different FFT lengths.
C Matching residues (at least Res64) covering the bulk of the calculations were produced using different hardware running the same software with the same configuration.
\+ Added if matching Res 64 and Selfridge-Hurwitz residues exist for the final residue: Pepin (for F20 and F24); Type 1 or Suyama for the cofactors.