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Punched-Card Systems and the Early Information Explosion,
1880–1945

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Published by Johns Hopkins University Press



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Punched-Card Systems and the Early Information Explosion, 1880–1945.

Johns Hopkins University Press, 2009.

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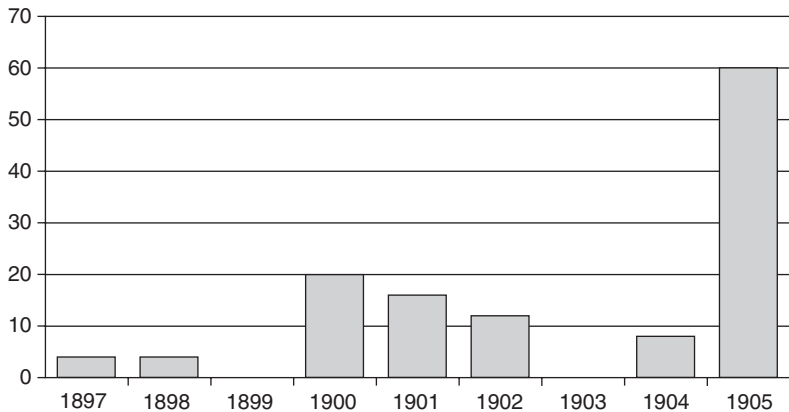
Appendix

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Financial Information: Tables and Figures

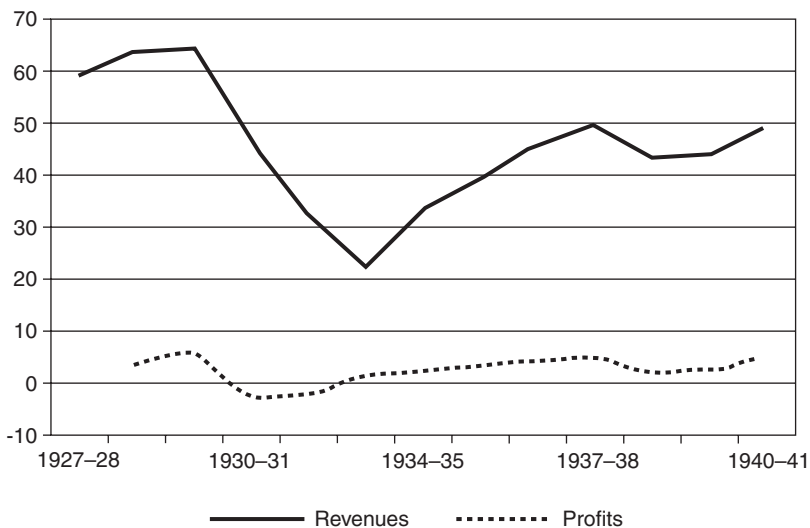
Exchange Rates for Selected Currencies, 1890–1945, in \$1,000 Equivalents

Date	Currency			Date	Currency		
	£	marks	francs		£	marks	francs
1890	0.2051	4.182	5.177	1918	0.2099	6.010	5.624
1891	0.2056	4.185	5.190	1919	0.2252	24.478	6.904
1892	0.2050	4.179	5.159	1920	0.2742	57.735	14.046
1893	0.2056	4.193	5.177	1921	0.2614	81.189	13.470
1894	0.2050	4.181	5.158	1922	0.2265	397.333	12.154
1895	0.2043	4.175	5.151	1923	0.2183	—	16.389
1896	0.2048	4.180	5.158	1924	0.2286	4.297	19.401
1897	0.2054	4.185	5.166	1925	0.2072	4.200	20.781
1898	0.2062	4.212	5.209	1926	0.2957	6.034	43.503
1899	0.2054	4.196	5.179	1927	0.2058	4.207	25.484
1900	0.2055	4.203	5.167	1928	0.2055	4.190	25.497
1901	0.2051	4.187	5.160	1929	0.2059	4.200	25.535
1902	0.2047	4.193	5.157	1930	0.2056	4.192	25.476
1903	0.2055	4.196	5.165	1931	0.2225	4.218	25.506
1904	0.2055	4.193	5.167	1932	0.2865	4.209	25.447
1905	0.2055	4.198	5.161	1933	0.2475	3.441	20.848
1906	0.2060	4.211	5.171	1934	0.1991	2.552	15.323
1907	0.2060	4.217	5.185	1935	0.2042	2.483	15.145
1908	0.2058	4.195	5.162	1936	0.2013	2.482	15.994
1909	0.2051	4.193	5.161	1937	0.2025	2.487	24.414
1910	0.2056	4.199	5.177	1938	0.2041	2.489	34.291
1911	0.2057	4.204	5.188	1939	0.2243	2.589	39.612
1912	0.2055	4.203	5.180	1940	0.2527	2.489	44.990
1913	0.2055	4.200	5.180	1941	0.2479	2.489	44.898
1914	0.2041	4.201	5.131	1942	0.2479	2.489	44.000
1915	0.2084	4.860	5.483	1943	0.2479	2.489	44.000
1916	0.2092	5.520	5.880	1944	0.2479	2.489	44.000
1917	0.2099	6.580	5.771	1945	0.2477	—	47.648

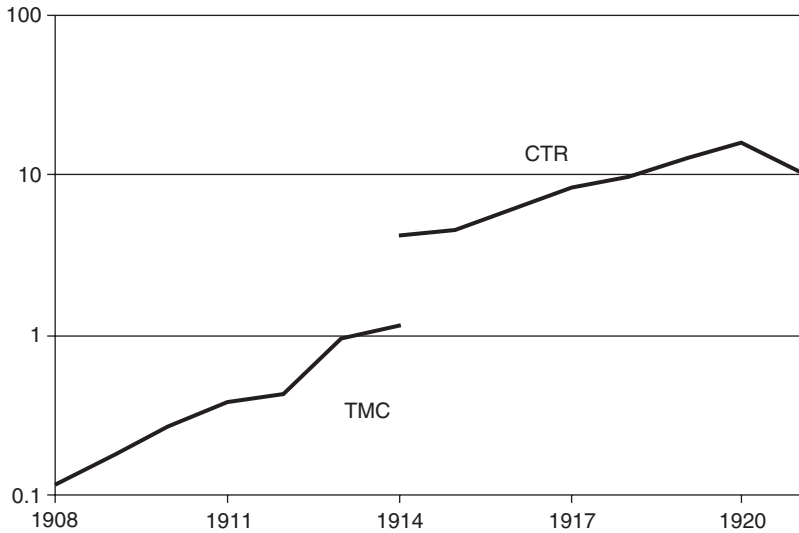
Sources: For the years between 1890 and 1939, this table is based on the exchange rate tables in Jürgen Schneider, Oskar Schwarzer, and Markus A. Denze, eds., *Währungen der Welt*, vol. 3.1: *Europäische und Nordamerikanische Divisenkurse 1777–1914* (Wiesbaden, Germany: Franz Steiner Verlag, 1991), 342–343, 350–351, 363, 367; and Jürgen Schneider, Oskar Schwarzer, and Friedrich Zellfelder, eds., *Währungen der Welt*, vol. 2: *Europäische und Nordamerikanische Divisenkurse 1914–1951* (Wiesbaden, Germany: Franz Steiner Verlag, 1997), 30–32, 51–52, 69–70. For the period from 1890 to July 1914, exchange rates are via Berlin. For the period from August 1914 to 1939, exchange rates come from London. No exchange rate exists in 1916 between sterling and dollars in these source tables, but a rate was calculated by linear interpolation of rates for 1915 and 1917. No exchange exists from 1915 to 1918 between marks and any of the other major currencies in this source, and the rates for these years are from *Wirtschaft und Statistik. Sonderheft zur Geldwertung in Deutschland 1914 bis 1923* (Berlin: Statistisches Reichsamts, 1925), 10. The exchange rates from 1940 to 1945 are from *Historisk statistikk 1994* (Oslo: Statistisk sentralbyrå, 1995), 658, 660. A dash indicates that information is not available.



Tabulating Machine Company dividends, 1897–1905 (as percentage of nominal share value). (Undated balance sheets, folder 3, box 12, Hollerith Papers, Library of Congress)



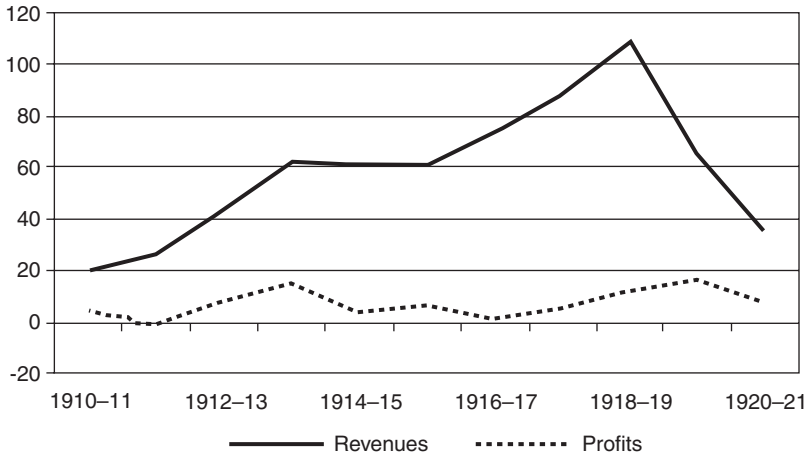
Remington Rand revenue and profit 1927–1928 to 1940–1941, prices of the year (in millions of dollars). Net profit not provided for 1927–1928. (Data for 1927–1928 to 1933–1934: Remington Rand Directors’ Meeting, 23 March 1937, in vol. 5, box 15, acc. 1910, Hagley Museum and Archive, Wilmington, DE. Data for 1934–1935 to 1936: *Remington Rand Annual Report for the Year Ending March . . .*, 1936–1941, vols. 5, 6, and 17, boxes 15, 16, acc. 1910, Hagley)



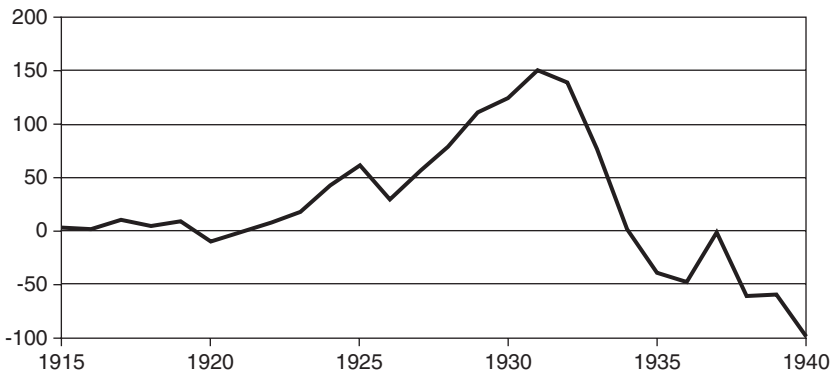
Tabulating Machine Company (TMC) and Computing Tabulating Recording (CTR) Company revenues 1908–1921 (in millions of dollars and prices of the year). (Figures in folder 7, box 10, Hollerith Papers, Library of Congress; Emerson W. Pugh, *Building IBM: Shaping an Industry and Its Technology*. Cambridge, MA: MIT Press, 1995, 23)



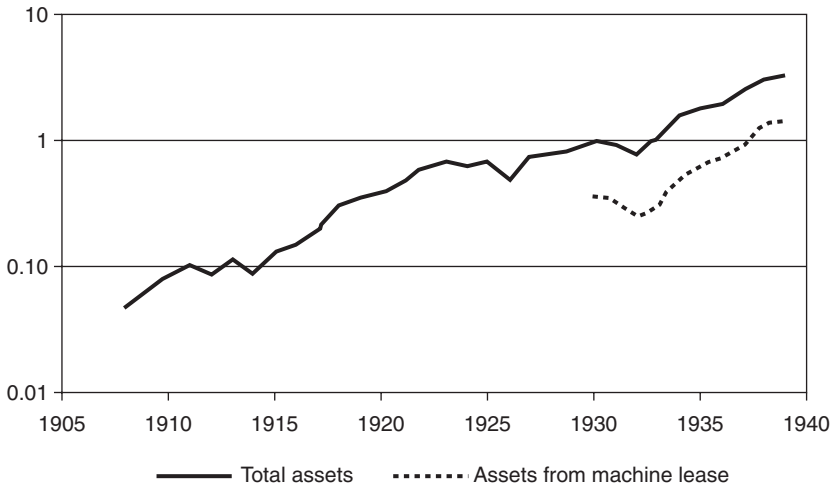
British Tabulating Machine Company pretax profits, 1908–1919 (in thousands of dollars). (Martin Campbell-Kelly, *ICL: A Business and Technical History*. Oxford: Oxford University Press, 1989, 25)



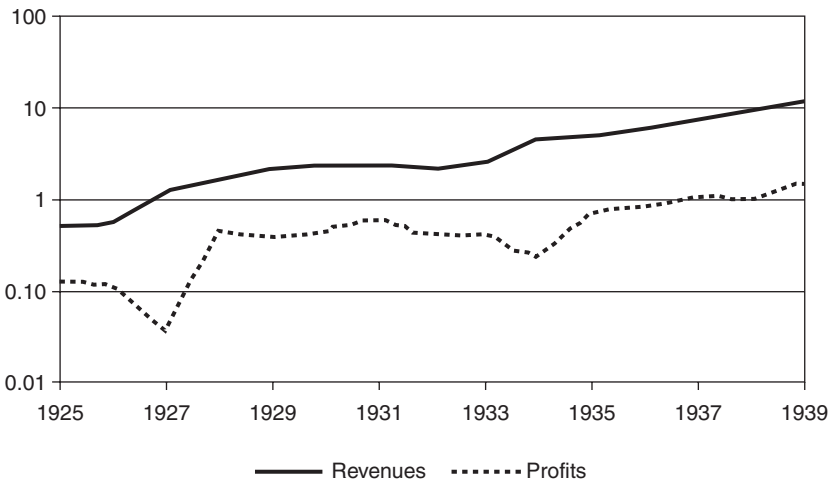
Dehomag revenues and profits, 1910-1921 (in thousands of dollars and prices of the year). (Dehomag annual accounts, B95/89, Wirtschaftsarchiv Baden-Württemberg)



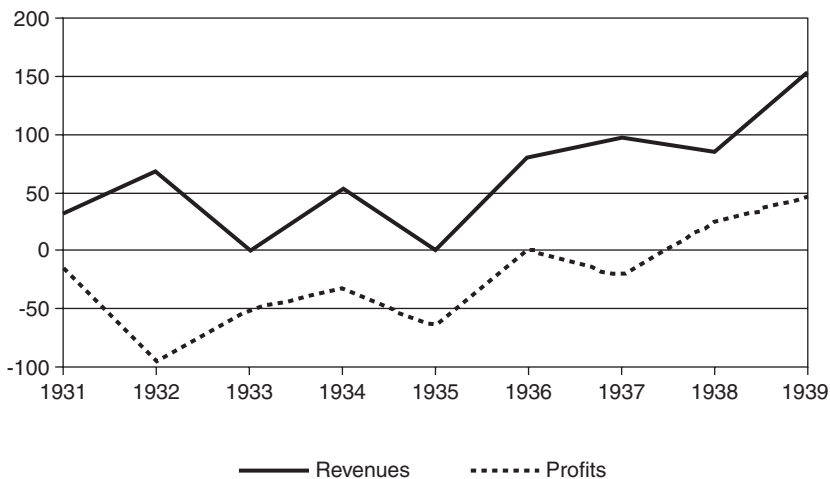
Net earnings of the French IBM companies 1915-1940 (in thousands of dollars and prices of the year). The earnings of the various French IBM companies are totaled for each year. There were four companies: International Time Recording Company (1915-1934), Société internationale de machines commerciales (1920-1934), Société française Hollerith (1935), and Compagnie électro-comptable (1936-1947). (Jaques Vernay, *Chroniques de la Compagnie IBM France*. Paris: IBM France, 1988, 266)



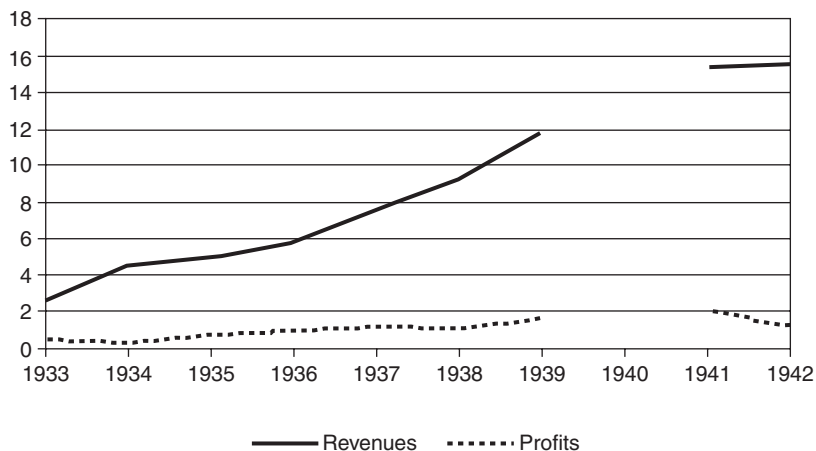
British Tabulating Machine total assets and assets from machine lease, 1908–1939 (in millions of dollars, logarithmic scale). Martin Campbell-Kelly, *ICL: A Business and Technical History*. Oxford: Oxford University Press, 1989, 25, 51, 78)



Dehomag's revenues and profits, 1924–1939 (in millions of dollars, logarithmic scale). (Dehomag annual accounts, B95/89, Wirtschaftsarchiv Baden-Württemberg)



Compagnie des Machines Bull, revenues and net profits, 1931–1939 (in millions of dollars). Bull started operations on 9 March 1931. (“Rapport sur la situation financière de la Société Egli-Bull au 31 décembre 1931,” 92 HIST-DGE 01/2, Archives Bull)



Dehomag revenues and profits, 1933–1942 (in millions of dollars). No figure for 1940 was located. (Dehomag annual accounts, B95/89, B95/110, Wirtschaftsarchiv Baden-Württemberg)

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